Thomas A. Edison Papers

A SELECTIVE MICROFILM EDITION

PART II
(1879–1886)

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START

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A Note on the Sources

The pages which have been filmed are the best copies available. Every technical effort possible has been made to ensure legibility.

THOMAS A. EDISON PAPERS

A SELECTIVE MICROFILM EDITION
PART II
(1879-1886)

REEL 80

LETTERBOOK SERIES (LBK-2)

Letterbooks, LB-004 - LB-008

Letterbook Series, 1879-1886

Forty-one volumes comprise the letterbook series for the years 1879-1886. The books are divided into two sets: (1) General Letterbooks and (2) Miscellaneous Letterbooks.

(1) General Letterbooks. The twenty volumes in this set contain tissue copies of Edison's personal and business correspondence during the period November 1878-February 1887. Although there are occasional letters in Edison's hand, most of the material is in the hand of Edison's various secretaries. The books relate primarily to electric lighting, but they also include material about other inventions such as the electric pen, the electric railroad, the phonograph, the phonoplex, and the telephone. Selections have been filmed from all of the books in this set.

(2) Miscellaneous Letterbooks. These twenty-one volumes do not fall within the main run of letterbooks. Included in this set are two letterbooks containing copies of cable messages. The cables relate primarily to foreign electric light orders and to the telephone business in Great Britain. Two other letterbooks contain personal and business correspondence by Samuel Insull, Edison's personal secretary. Most of the remaining letterbooks contain correspondence and other documents relating to the business of the Edison Ore Milling Company, Ltd. (one volume); the Edison Shafting Manufacturing Company (six volumes); and the Thomas A. Edison Construction Department (eight volumes). In addition, there are two letterbooks pertaining to the development and promotion of Edison's system of phonoplex telegraphy and telephony. Selections have been filmed from all of the books with the exception of the Shafting Manufacturing Company books, which contain only routine correspondence relating to orders.

The following categories of documents have not been filmed: routine letters of transmittal or acknowledgment; routine correspondence concerning the ordering and shipping of materials; routine letters about financial transactions; routine responses to individuals seeking employment, requesting advice, or offering advice; routine answers to other unsolicited inquiries; routine letters of instruction to canvassers or suppliers (in the Thomas A. Edison Construction Department letterbooks); and routine correspondence concerning orders for, and the installation of, Edison's phonoplex.

Finally, some letters were not filmed because they are illegible. Although every technical effort has been made to ensure the legibility of the documents on the microfilm, some of these materials may be difficult to read because of spreading, smeared, or faint ink; bleedthrough; and severely wrinkled or torn pages.

Tissue copies of outgoing correspondence can also be found in the "Edison, T.A. - Outgoing Correspondence" folders for 1883 and 1884 (Document File Series) and in the Charles Batchelor letterbooks (Special Collections Series).

The following books comprise the Letterbook Series for 1879-1886:

A. General Letterbooks

1. LB-004 (November 1878-July 1879)
2. LB-005 (July 1879-May 1880)
3. LB-006 (May 1880-April 1881)
4. LB-007 (January 1881-August 1882)
5. LB-008 (March-September 1881)
6. LB-009 (March 1881-January 1882)
7. LB-010 (April-November 1881, June-July 1884, July 1885, July-September 1888)
8. LB-011 (January-March 1882)
9. LB-012 (March-May 1882)
10. LB-013 (July 1882-November 1883)
11. LB-014 (August-December 1882)
12. LB-015 (December 1882-March 1883)
13. LB-016 (October 1882, March-May 1883)
14. LB-017 (May 1883-January 1884)
15. LB-018 (January-October 1884)
16. LB-019 (February 1882-December 1884)
17. LB-020 (December 1884-September 1885)
18. LB-021 (September 1885-March 1886)
19. LB-022 (March-October 1886)
20. LB-023 (October 1886-February 1887)

B. Miscellaneous Letterbooks

1. LM-001 Cable Book (March 1881-July 1883)
2. LM-002 Cable Book (July 1883-March 1885)
3. LM-003 Samuel Insull Letterbook (January 1882-November 1883)
4. LM-004 Samuel Insull Letterbook (May 1886-April 1887)
5. LM-005 Edison Ore Milling Co., Ltd. Letterbook (September 1881-June 1887)
6. LM-006 Edison Shafting Mfg. Co. Letterbook (July-December 1884) NOT FILMED
7. LM-007 Edison Shafting Mfg. Co. Letterbook (August 1884-December 1885) NOT FILMED
8. LM-008 Edison Shafting Mfg. Co. Letterbook (October 1884-March 1885) NOT FILMED
9. LM-009 Edison Shafting Mfg. Co. Letterbook (March-May 1885) NOT FILMED
10. LM-010 Edison Shafting Mfg. Co. Letterbook (May-September 1885) NOT FILMED
11. LM-011 Edison Shafting Mfg. Co. Letterbook (September 1885-January 1886) NOT FILMED
12. LM-012 Phonoplex Letterbook (June-September 1886)
13. LM-013 Phonoplex Letterbook (September 1886-January 1888)
14. LM-014 Edison Construction Dept. Letterbook (June-September 1883)
15. LM-015 Edison Construction Dept. Letterbook (September-October 1883)
16. LM-016 Edison Construction Dept. Letterbook (October-December 1883)
17. LM-017 Edison Construction Dept. Letterbook (December 1883-January 1884)
18. LM-018 Edison Construction Dept. Letterbook (January-April 1884)
19. LM-019 Edison Construction Dept. Letterbook (April-June 1884)
20. LM-020 Edison Construction Dept. Letterbook (June-September 1884)
21. LM-021 Edison Construction Dept. Letterbook (January-August 1884)

Letterbook, LB-004

This letterbook covers the period November 1878-July 1879. Most of the correspondence is by Edison and is in the hand of William Carman or Stockton L. Griffin, acting as Edison's secretary. The book contains material relating to the electric pen, the typewriter, the automatic telegraph, phonograph sales, foreign patents, and the foreign telephone and electric light businesses. Book and journal orders are scattered throughout the volume. Included also are several letters to ore prospectors from whom Edison was seeking platinum samples. Among the recipients are George H. Bliss, George E. Gouraud, Theodore Puskas, William E. Sawyer, and Lemuel W. Serrell. The spine is labeled "1878-1879" and is stamped "Letters." The book contains 492 numbered pages and an index. Approximately 20 percent of the book has been filmed.

MANN'S

White Linen Copying Paper

from the Library of Dr. Lee, Ireland

DIRECTIONS FOR COPYING.

Place a piece of blotting-board under the leaf of Copying Paper; then with a soft brush, wet the leaf. Take off the surplus water with another sheet of blotting; then place the written letter on the leaf, leaving the blotting-paper under the leaf, to take up any excess of water that may yet remain; place it in the Press, and in ten or fifteen seconds a perfect copy will be secured.

The Leaves WILL DRY AS SMOOTH AS SILK by placing the Book in the Press after Copying.

Place the [illegible] Place the oil sheets between the copies just made, to prevent bleeding or setting off.

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Nov 18 8

My dear [illegible]

[illegible] to
your letter of the 15th in regard
to Cuba and the electric light.
I do not think it necessary to
telegraph Pacheco, [illegible]
made by me will, I am sure,
be satisfactory to him. I think
if Mr Navarro will arrange
to let him have 50 pounds and
that he [illegible] of [illegible] interest
will make it all right.

Very truly
Yours
T. A. Edison

No. 1

[illegible]

My Dear Gomaiz,

I send to
3 Boxes containing 10 Cells and
19 transmitters of Western R.R. [illegible]
Mfg Co make and [illegible]
Containing 6, 1/2 pint bottles
Carbon, [illegible] of [illegible]
to make into buttons.

New Receivers

I was to do a little
work [illegible]
[illegible]
take my hands [illegible]
[illegible] (Clerk [illegible]
[illegible] thoroughly [illegible]
the mechanical details [illegible]
[illegible] definitely when he will go [illegible]
it will be done.

Very Truly Yours
T. A. Edison

Nov 19th 8

Mr William Rogers
New York

[illegible]

I wish to subscribe for the following periodicals for one year which have taken from the Office Please to send to Mr [illegible] Stevens [illegible] St. [illegible] a copy of title to [illegible]

[illegible]

[illegible] Mining Journal
[illegible] News
[illegible] Metallurgical Engineering Magazine
Civil Engineer Journal
Gas Light Journal
Metallurgical Review
[illegible] Review
English Gas Light Journal
[illegible] Journal

Dec 4 8

G. Bourne Esq
N.Y.

Dear Sir;

Your telegram in regard to the two hundred and fifty dollars British patent fees has just been rec'd. Mr Edison requests me to ask if the fees for the two British patents which have been sent over, and for the one now ready to be sent are taken from the Edight fund and if so cannot the total amount be placed to his credit.

He also requests me to ask if he has signed the Bonnel Co-partnership, as he has no recollection of so doing.

Yours truly
A.L. Griffin

Menlo Park N.J. Dec 11/78

My Dear Parker

Herewith I send you copy of a letter just received from Mr. Tainter.

This matter should be attended to by you at once as the dictating machine will be along soon and I consider the patent very valuable and do not want it to capsize from inattention. Please let me hear from you soon as there is no time to be lost.

Very Truly T. A. Edison

Copy

New York Dec 12/78

Thos A Edison Esq

Dear Sir I have to advise you that the 2d Annuity on your Austrian Patent on Phonographs of Jany 15 1878 is due Jany 15 1879 the amount of the Annuity is £25 stg including expenses and the fees should be sent from here by Dec 28. 1878 in order to be in time. Please let me know your wishes in the matter.

Yours Truly

(Sign'd) [illegible]

Dec 16th 8

Geo H Bliss Esq
Chicago Ill

Dear Sir

Referring to your
of the 11th I do not think
Hoffmans foreign interests
amount to a row of
pins, and do not think
it worth while to bring
the matter up for argument
You might let me know
what Dennett says if its
worth while.

Yours Truly
F. A. Hoffman

Dec 17

Lemuel W. Serrell Esq
New York

Dear Sir.

Referring to your letter of the 16th regarding Mr Fortune's arrangement with me was that he should pay for the papers. If you can get them back I will turn them over to Mr Wexel who I would much prefer to have them

Very Truly
W. A. Wilson

Dec 17

Lemuel W. Serrell Esq
New York

Dear Sir.

Referring to your letter of the 16th regarding the annuities for the Belgian and Italian Hippodrome tickets, if you have any funds or shares belonging to Mr Roshow please pay the annuities mentioned from such funds, otherwise pay them and charge my account. But let me know which you do.

Very Truly
J. Sch[illegible]

Gentlemen, I have made arrangements with the firm of Harper Bros. publishers Franklin Square N.Y. in regard to the publication of an Electric Light pamphlet to be issued by them simultaneously with the publication by you in London. The book will be brought out at once that owing to the peculiar condition of affairs as regards patent applications, I cannot say definitely when it can be completed. No doubt you will arrange with the above parties as regards the rate to that there will be no delay in getting it out after the matter is formally

Very truly

Messrs. Sampson Low & Son
London

Thomas A. Edison

Wed Jan 6 [illegible]
London

Dear Sir,

Replying to your favor of the 19th inst. I am in doubt whether to reply to the three matters in your letter back first to show it to Mr. Edison or to wait for that until something better appears. The Scribner Article you refer to has been [illegible] perhaps there will be a big [illegible] in a month or two [illegible] is it is written by a old [illegible] and Telegraphy [illegible] of Edison will be [illegible]

Yours respectfully

E. [illegible]

[illegible]

Dec 19

My Dear Gourand

I suppose you are all out of all patience waiting for the new receivers. The last one I have had, it working fine, and thought it was permanent and all right. But I learned differently (as time went on) and found they deteriorated. That is, the chemicals used did not stand but lost their power. Now I am engaged in making them permanent and able to have them all right then. I cannot let them go until they are above criticism.

Yours

Dec 19

L. A. Darrelle Esq
N.Y.

Dear Sir

Referring to yours of the 16th regarding claim 11 cents for feed in Gestman & but let it go till I can get matters it.

Very Truly
T. A. Edison

Our correspondent says he is in a position to find people to work these inventions commercially in Spain.

Victor Grace
Consul of Spain & Spanish Vice-Consul

Copy

Lorne [illegible]

[illegible] Esq.
Secretary.

Edison's phonograph

— Spain

The patent for this invention must be worked in the country before the 16th of May next. Our Consul at Madrid reminds us of this & offers to undertake the work. We have communicated with Mr Preece in the matter, but he & Edison himself [illegible] in his hands in the latter case. Kindly advise us if we are to take any action in the matter, and should we have to do so we should require a phonograph to be sent to Madrid also a set of telephones. These [illegible] be made [illegible]

Dec 20 r

L. W. Serrell Esq
NY

Dear Sir: Referring to yours of the 19th regarding the annuities on the Edison v. Amstein patents please make out a separate bill and send to me so I can send it to Pusher for collection. I thought you had some surplus funds left over from E Light belonging to him.

Very truly
T. A. Edison

Menlo Park N.J. Dec. 23rd 1878.

Dr Norris Green,
Phila. Pa.

Dear Sir. It having been brought to my notice that you have expressed yourself as being displeased at the course I have taken regarding the new telephone receiver, I wish to say that it is barely possible there is a misapprehension in your mind which I may be able to remove. My idea was that owing to the prospective litigation over the Magnetic Receiver, a new receiver without a magnet would be desirable, protecting to increase the capital already invested, give better results, and remove all cause of contention. Previous to that this instrument was issued immediately I proposed to bend my energies in that direction and put some of my force to work experimenting, of course the expense entailed, considerable expense. And the terms I proposed was only for reimbursement because it is impossible to employ sufficient talent in my assistants without a promised reward, the salary being small and the amount which would be received under the contract small to divide among several persons. Of course, (as I have already stated to Mr Twombly, Mr Walker and others) the experiment

[illegible] in the regular manner and the
[illegible] when produced [illegible] be paid
for as provided in the Contract. If you
do not require such an instrument now,
it would of course be foolish to forge ahead
[illegible] but wait until it is
produced in the regular course. It was
[illegible] the impression that the Company
would like to hasten as soon as possible
so that they might be enabled to
[illegible] an adjustment of the various
[illegible] of expenses which in this work
[illegible] the [illegible] not only be
[illegible] but prove a loss to the Company
[illegible] times greater than any sum paid
for securing the [illegible] forward.
Trusting that this explanation will be
satisfactory to you [illegible]

[illegible]

[illegible] Truly

[illegible]

Menlo Park N.J. Nov 23rd 1876

Wm. H. Pumphrey Esq
Vice Pres't W.U.T.Co.

Dear Sir,

I have proposed to Kinney that if he will come here & perfect his instrument I will furnish him a portion of my weekly allowance to do it.

The reason why I did not write the letter promised was

1st Mr Green wanted me to state the price I wanted before he would go into it.

This I would not do because I was not compelled to make the contract because if it was accomplished easily I should ask a moderate compensation but if it was very difficult then I should charge more, as one would ask more for an indefinite amount of labor.

2d Because Mr G. has some relations with Mr Andrews who claims that an old contract he has with Green covers a portion of any autographic system I may devise. These relations, or understandings, between Mr G & Mr A. are unknown to me, while I know exactly what Mr A claims from me, and as it is a matter between ourselves I could take care of him. His claim

2

(about $250) was a venture by him on which I lost my time and he his money.

Any patents obtained would be assigned by Kinney and myself to the W.U.Telegraph Co and Andrews would have to sue me for his fraudulent claim and not the W.U.T. who would own the invention as against all comers. Are you satisfied that Kinney & I should go ahead in this way or will you add $25 per week to Kinney's allowance for Kinney's co-work (it to be arranged).

Yours Truly

T A Edison

P.S. Kinney says if I succeed in perfect success he will take $[illegible] equally during life of patent.

If the thing is a success it will save the W.U. $ & be worth millions to us if not a success the Co will have expended hundred dollars.

T.A.E

Dec 24

Dec 27

Wm Greenwood Esq.
Haverhill Mass

Dear Sir

Your favor of the 24th was duly rec'd. I cannot do anything about my inventions in India until I hear from my agent in Paris, as he may have made business arrangements of which I am yet known nothing. I have written him twice and expect soon or later to receive a reply at which time I will communicate with you

Very truly
T. A. Edison

Mr Editor Pocket

Have you done anything in regard to my inventions in India? I have one or two inventions respecting this matter and could make 1st class business arrangements with a party here who has [illegible] there. I did not know what you had done or were doing.

I was under the impression that I had written you some time ago on this matter, but I fail to find a copy of it.

Please do me the favor to reply soon

Yours
T. A. Edison

(6)

Menlo Park N. J. January 3d 1879

My dear Preece

I have been so very busy since our last exchange of Cables that I have not had a moments time to write you. I am working entirely at night with six of my assistants. I found that nothing could be accomplished during the day on account of the numerous visitors.

I am sorry we do not carry out the negotiations with Drexel Morgan & Co as foreshadowed in my Cable telegram of the 30th ult. If you still feel disinclined to enter into such negotiations you must without delay make preparations to have parties there furnish some money for experimental purposes. The fund I have here is being rapidly exhausted, as it is very expensive experimenting. I bought last week $ worth of Copper rods alone, and it will require $1500 worth of Copper to light the whole of Menlo Park for mike readings. It is also essential that Tennell should have at least $ in hand. A second set of patents on the telephone ought to have been taken out some month ago that which has been rejected owing to the lack of funds.

2

Please write me immediately if you can arrange so that your partner shall be able to come out in experimenting and how much. We are making rapid progress and the whole thing is going to be a success, but it will require much less than I at first anticipated. Don't fail to supply Tennell with at least $1500 immediately for a second set of patents.

Yours Truly T. A. Edison

Robt Sellila Esq
Hagerstown

Dear Sir,

Your favor of the 7th inst was duly rec'd. I think it is all nonsense about Spiral. The E pen beats any Breakle Cover made. Besides Priests affairs is merely local While the E pen is sold everywhere. Do not obtain a foot on royalty. I still differ in 2 letters to date. But I am satisfied to let the pen stand on its merits until I see something more alarming than has yet appeared.

Very Truly

Geo. W. Thomas Esq
Fort Wayne

Dear Sir,

Referring to your of the 30th ult relative to Priest matters, I do not agree with you. I do not believe in any cheap substitute but just confine the Electric pen Co. stand on its own merits. Until I see something more alarming than what has yet appeared I prefer to let my royalty remain as it is.

Very Truly
J. R. Elder

ⓒ

Jany 25. 1879

[illegible]

[illegible] objection to my [illegible] a power of atty to collect royalties from the [illegible] Stereoscopic Co. [illegible] I have [illegible] of the [illegible] from royalties [illegible] this country [illegible] still continues [illegible] great demand for [illegible] if you have no objection to give [illegible] power of attorney [illegible] of all collection [illegible] the Stereoscopic Co. [illegible] put the law on them if they do not sell the instrument.

[illegible] of atty [illegible] telephone [illegible] reports [illegible]

I [illegible] statement up to January [illegible] of [illegible] Telephone [illegible] stock certificates if they [illegible] been [illegible]

Electric light progressing [illegible] should have money to [illegible] yet [illegible] patents [illegible] $1500 [illegible] 480 [illegible]

[illegible]

[illegible]

[illegible]

Lt. N. Sewell Clay
NU

Orange N.J.
May 26 1911

Dear Sir

Referring to your form of the 25th in relation to type writers. Mr. Edison does not claim the perforating type. You probably can develop claim on type wheel and claim a type wheel & punch for perforating paper strip for tipping. Also shall make a claim of type punch for making a hole on one side which enters the paper.

I am inclined to think that perforating types are old hence you may be able to make a combination claim and a process claim.

Very truly
T. A. Edison

January 29. 1879.

L. H. Gurnell esq.
N.Y.

Dear Sir.

Regarding the app.n for patent on latest improvement in telephones in Canada, and your letter of the 27th in relation thereto, I do as you think best and send me a sketch of models required.

Very truly
Yours
T. A. Edison

[illegible]

[illegible] Special Case of the 11th inst was duly [illegible]
[illegible] answers also your letter of the 16th [illegible]
[illegible] I did not see the letter [illegible]
[illegible] you did not wish to be drawn into a controversy. I notice in the Telegraph of [illegible] (London Jany 18.79) a letter from Hughes [illegible] again offers to Clerac [illegible] ~~tubes~~ the tubes of that description [illegible] not work now it is perfectly safe to [illegible] I did not work them. It is very likely [illegible] make a tube which a screw or [illegible] be attached should be used to [illegible] the pressure. And I have no doubt [illegible] after thought of Hughes to say that [illegible] tubes were used in the manner and [illegible] the purposes named. That Clerac may [illegible] tubes for a permanent resistance [illegible] do not doubt. I shall watch with interest your reply to Messrs Hughes [illegible] Clerac and everything pertaining [illegible] the subject.

Very Truly Yours
Thos A Edison

[illegible]
[illegible]

Geo H Bliss Esq
Chicago

Dear Sir

Your favor of the 30th regarding the Rd riding in Canada just rec'd. I will look into the matter and do what I can to remedy the matter.

Very Truly
T. A. Edison

Feby 3-19

My Dear Mr Kampson

Your favor of the 31st was duly rec'd. Mr Edison thinks it will be better to wait a while before going on with an autographic letter about the Engine. He thinks the Dynamo machine should be tried on it.

In regard to the Hydraulic Press he says he is not ready for it yet.

Enclosed please find $50 check credit T.A.E. on acct of plans. Will send you the balance as soon as financial matters get easier. Please acknowledge receipt and oblige

Yours truly

July 5. 79

Mr. Williams Rhum
Newark N. J.

Please make out
files of the Offices. Decisions
Monthly Complete by getting
the Nos for Nov & Dec 1878
and also bind Vols 5 & 7
of the Telegph Journal separately

Very Truly
J. A. Gibson

U. S. Patent Office
Washington D.C.

Dear Sir,

In order to complete
our files we need Nos
7. 8. 11. 12. 19 Vol 12
7. 26 " 9
2. 7. 14. 15. 16 & 17 Vol 10
of the U.S. Patent Office Gazette

Can you procure them?

Very Truly
S. L. Griffin

October 8th

E. N. Dickerson Esq
New York

Dear Sir,

I learn indirectly from Mr [illegible] that it is well known [illegible] platinum volatilizes in a vacuum. Now I have made the statement to Mr L that no [illegible] is found in any work - Regnault's, Annales [illegible] Chemistry, Comptes Rendus, or other [illegible] the volatilization of platinum, a continuous [illegible] and the volatilization of which increases as the temperature rises and that it [illegible] weight in the flame of a candle or of hydrogen and colours the flame green.

Your statement you will please see is in the position of having stated an untruth, therefore you will greatly oblige me by giving the [illegible] of the work or works which you [illegible] that the fact is printed. Otherwise [illegible] the books state that platinum is easily volatilized in vacuum tubes by the electric discharge.

Yours very truly
E. N. Dickerson

FROM THE LABORATORY OF
T. A. EDISON,
MENLO PARK, N. J.
U. S. A.

Feby 10. 88.

My Dear Keith.

Yours of yesterday just rec'd. It is impossible for me to leave here just now, I am exceedingly busy and have so many men to give instructions that it is out of the question. This would be a good place for you to come and bring your friends if you want to talk over matters.

Yours Truly
T. A. Edison

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Messrs Houghton Osgood & Co. Feby 15. 79

N.Y.

Gentlemen

Your favor of Nov 14th regarding the Mich Society was mislaid and has just been found. Enclosed please find check for $7.00. Please send Nos 2, 2, & 35 applied for by Express.

Yours Truly

Thomas A. Edison

My dear Parker

Feby 22nd 79

I sent you a few days ago diagrams for a Central Telephone office. I did not examine them critically and have just learned from the Supt that they were incorrect. Please destroy them and I will forward correct copies in a few days

Very Truly
T. A. Edison

Menlo Park Feb 22nd 1879

Gentlemen B. Cuttriss Supt &c

Please send me receipt for the 300 batteries recd Feb 5th 1879 – Also received more as yet

Yours Truly
T. A. Edison
per

188

Express system offices 52 Pine st
and 304 Broadway. Keep a sharp
look out for them & I hope they
will reach you in time—

Yours Truly
T. A. Edison

Feby 20th 79

My Dear Governor

A few days ago I
mailed you diagrams of the
Central Telephone system. I am
just in receipt of a letter from to
effect saying all the wires connect
and that correct diagrams would be
mailed soon. Please detain those
which you have and wait for
others which will be forwarded
soon as possible—

New Revision

I have just rec'd your
Cable — Tyndall reply will send answer
being my Best to Lon Tuesday
or at most Wednesday Steamer Feb 26 will
[illegible]

Feby 25. 79

Friend Prescott

Yours regarding the Quad was duly rec'd. The price named is low. Do they mean circuit created or the wire itself? I think it would be a scheme to take less than $20 per annum on at least 30 circuits and ought to be 40 circuits (guaranteed) not less than that. It is either all that or nothing and I think it will have to take it, if not now, within a year because it must in time replace the Wheatstone automatic. These figures I give are low but I would be satisfied with the 30 circuits guaranteed at $20 E. L. providing you cannot get more. In fact I will do anything you say.

Very truly, T. A. Edison

Feby 25. 79

J. C. Higgins Esq
New Brunswick

Dear Sir

Enclosed please find check for ten dollars

Please acknowledge receipt

Very truly
T. A. Edison

Messrs J. Bergmann & Co.

Tdy 25 79

Gentlemen,

We find many defects in your work. After working all day yesterday & all night we find one of your induction coils is so badly insulated that we can hardly get anything over it. If you will copy the cap in the transmitter as made by the W.E. Mfg Co. you will improve the contact greatly. We find upon testing your finished work that the resistance is only ⅒ of an ohm whereas it should at the lowest estimate be ⅒ of an ohm.

Very Truly

Pat Edison

My Dear Dr Kerr Feby 28. 79

I have just received your favor of the 26th and in reply would say that I cannot take any part in the difficulties in Europe which you mention. Blake has got me bound by a cast iron contract so that whatever is the upshot of his business I must be left out of the question.

I have a copy of the Report. There is nothing in it to be in my opinion to cause the feel anxiety that as such it might if it appeared practically just the same will it infringe on my patents.

Very truly & heartily
Thos A Edison

March 3d 9

Messrs. Wm. H. & O. R. Morrison
Washington D.C.

Gentlemen, Enclosed please find check for twenty dollars ($20). Please send by Express the two volumes of Whitman's Supreme Court Patent Cases which you advertise by circulars

Very Truly
T. A. Edison
9.

March 3d 9

(G)

T. H. Lowrey Esq
Nil.

Dear Sir, I have not heard anything from Rider and have concluded to wait two days longer, if by that time I fail to get the Bill from him I want to see Drake Morgan & and have new set of patents secured.

Very Truly
Thos A. Edison
9

(c)

March 22 9

Mr. Geo Walker
New York City

Dear Sir.

Your favor of the 14th inst was duly rec'd. I have no objection to allowing the bearer, Mr. Freeman of the Lab. Stevens, to say I have not yet, but I will be able to see them.

The new receiver is getting on finely. I had the whole force of the shop, 12 men, working on it two days last week and I think I have now the best form of instrument and the best telephone I know of. How is the diffract. Mr Eaton said he would have it ready for me but I have not seen it as yet.

Very truly Yr. A. Edison

March 3rd 79

My Dear Puskas

What arrangement does the French Telephone Co. desire to make whereby they will have the benefit of all the new improvements in telephones? I suppose they get them without pay if you have made such an arrangement, and if this is the case money should be in Cerrelli's hands to pay for preparing the papers for any improvements which it is desirable to patent in France. I have two improvements now that should be patented. One patent would cover them. When may I expect to receive the stock of the new Co.? Is it ready yet?

Very truly
Thos. A. Edison

(C)

Colo Geo. Gouraud
London

March 5. '79

Dear Sir

Your favor of the 22d ult was duly recd. Regarding the Telephone in Countries where there are no patents I do not feel at liberty to authorize you to go ahead and occupy the territory but I do not see why you cannot do so without my sanction – After you are established in each Country I will give you my support.

Very Truly T. A. Edison

my object in all this is to avoid complications with Bell Co.

L. W. Serrell Esq
N.Y.

March 5. '79

Dear Sir

Referring to your favor of the 3d regarding that part of application No 171 which relates to determining the value of the electric current used, by weighing the electric deposit I cannot patent it separately because it is old. It must go in combination hence make the claim accordingly and keep it in one patent.

Very Truly
T. A. Edison.

March 7. 79

L. W. Serrell Esq
N.Y.

Dear Sir.

Your postal of the 6th regarding Case 164 just rec'd.

In april 1877 I made several hundred cylinders of finely divided metals, carbons + other conducting material mixed with various infusible oxides in various proportions and the cylinders were of various sizes.

In Dec 1877 I subjected silicon, Zircon, Boron and other metals to a powerful current to produce light by incandescence; also powders of these substances and also of metals mixed with fire clay + dextrine to powerful currents. The experiments were at times very successfull but they were generally unreliable. It was simply impossible at that time to make perfect contact. In Sept 1878 - (oct) I commenced experimentation again, as I had by experiments with the telephone where finely divided conductors were used, ascertained that contact could be secured by opening a large surface to the substance and mounting it in the holders or connecting clamps by great pressure conducted many experiments since that date to obtain a perfect contact, the result of which was that the mixture of didium with the other magnesia is perfectly practicable.

Very truly
T. A. Edison

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(C)

March 10th 9

L. W. Serrell Esq
New York

Dear Sir [illegible] letter of the 20th [illegible] It may not be new [illegible] Case 167 [illegible] to make types of points for perforating paper [illegible] Method, or new article, but it is new as a method, or new article, or new machine of combining a number of [illegible] to make a [illegible] printer. [illegible] this is a [illegible] the art of printing [illegible] of great value. The person who picks up a cancelling stamp a jacquard loom stamp etc. combines it with a type and a printing press to produce a new method of printing that expends all other processes in cheapness and rapidity is entitled to a patent. You will perhaps have to make a peculiar set of claims and if they reject appeal it.

Very truly
T. A. Edison

(c)

Mch 10th/ 7

L W Serrell.
New York

In patent & model sent you in lamp with globe within a globe.
Incepolate "

Chemically pure iron cobalt or nickel drawn in wires may take the place of platinum where the light is not required to be intense, as these metals when perfectly pure can be freed from gas as described & be brought to vivid incandescence

I want to claim these metals freed from gas in a sealed vacuum

T. A. E

Laboratory of
T. A. Edison
Menlo Park, N.J.
U.S.A.

March 10.79

[illegible]

Dear Sir.

Replying to yours of March 3rd (Cat. 158) I have [illegible] before [illegible] publication [illegible] Eng. [illegible] published [illegible] early [illegible] 1877. I [illegible] [illegible] [illegible] [illegible]

[illegible]

T A Edison

March 10, 79

Williams & Pleau
Newark

Gentlemen

When may I expect the books which I sent for some time ago to be bound?

Very Truly
T. A. Edison

March 10, 79

Messrs Wilmer & Rogers
N.Y.

Gentlemen.

The periodicals which I subscribed for Nov 4th & Nov 29th come very irregularly and unsatisfactory. I have received but one copy of Poggendorff's annalen which came about 5 weeks ago.

Please put my name on your books and send to me from your N.Y. office Dingler's Polytechnic Journal commencing with Jany 1st or the first number for 1879

Send bill to Mr Edison
Electric Light Co 5 Broad St N.Y.
Continue subscription

Very Truly
T. A. Edison

March 10th 9

Mr A. E. Foote
Phila

Dear Sir. Please send the following list of Books etc by express with bill and I will read. You may remember my purchasing from you 800 specimen of minerals (assortment) at what price will you furnish the whole of your Catalogue consisting of 832 specimen (Student size) deducting from the list those which I already have.

Very Truly
R. T. Edison

Faraday Exp. Lectures. Bennet Jones
Faraday on Life. Tyndall
Clarke. Contrib. of nature
Arnott. Physics
Bottomley. Chemistry
Kennedy. Kinematic models
Graham. Chemistry
Silliman "
Allen. Mech of nature
Bird. Electricity & Galvanism
Brown. Philos of Physics
Donovan. Galvanism

Ryan. Elements of Light
Miller. Mech & Hydrostat.
Miller. Magnetism & Elect
Pictet. Traité de physique
Smith & Gardner. Magnetism & Electricity
Smith & Kensington. Mining Engineer on Minor Mech
Tate, Natl philos.
Tomlinson — do
Harris. Magnetism
Cat of Rocks & Min
" " Shells

(c)

March 10th 9

Prof G Thureau
Sandhurst City
Australia

Dear Sir Your favor of January 27th was duly rec'd. I do not think there is any doubt but that the Carbon telephone will answer for the purpose required. They are already in use in the Coal mines of Pennsylvania and are being introduced in the Comstock mines. The owners of the patent for the U. S. have already sold 20000 and cannot manufacture them fast enough to fill orders. I can let you have these instruments with battery & every thing complete as described, delivered on board at twenty five dollars ($25) each. I do not wish to sell them on commission but will consign them to you for disposal and you can remit. There will be no difficulty about wire insulation. I send you herewith a sample of "Keritt" wire which is used in the mines

in this country. I will ship you in a few days two Carbon telephones complete with a package of carbon buttons, and full and complete instructions with diagrams, and hope you will have no trouble in setting them up and working them successfully.

If you want to say anything special in reply to this letter you can write a telegram on the paper which I have enclosed (20 to 30 words) mail it to the manager of the Cuprophil Co. San Francisco who will forward it to me and thereby gain one week or more.

Very Truly
T. A. Edison

Mar 1887 9

Dr. A. G. Tool
Field

Dear Sir

Regarding Telephone [illegible] 189 which you say is due [illegible] 175, I have no copy of the [illegible] several preliminary statements [illegible] or telephones already [illegible] Washington. Either [illegible] copies of statements or you can [illegible] from them all the data [illegible] to make out a preliminary statement. Please reply.

Very Truly
[illegible] Field

Yours [illegible]
[illegible] Edison [illegible] wanting [illegible] wealth [illegible] grants for minerals are [illegible] facts at present they [illegible] pretty light.
I am now much [illegible] with the books [illegible] you and [illegible] [illegible] moderate. [illegible]
[illegible] Edison for $135. [illegible]
Yours Truly
T. A. E.

Jan 1886	[illegible]	[illegible]
Feb 1886	[illegible]	[illegible]
[illegible]	1031.01	357.0[illegible]
Error in [illegible]		3.0[illegible]
Husbands services [illegible]		
[illegible] 1887 862	1550	
Salaries [illegible] Mr. [illegible]		
	1135.57	1150

U.H.

You remember this was to have a small share of this for freezing him out.
Do you need some money. =

T A Edison

March 1

Edison

Dr. Edison in account with N. H. Co. L.A.

Royalties on Home Sales	1 qtr	50.00
"		7.50
	May	57.60
		14.65
	June	346.15
		126.50
	July	93.10
		23.30
	Aug	409.48
		102.30
	Sept	461.00
		115.00
	Oct	461.00
		115.25
	Nov	213.00
		53.25
	Dec	297.60
		74.40

Mch 14. '79

L. W. Serrell Esq
New York

Dear Sir. I have returned the phonograph papers. Better prepare the patent as sent you, I will not take advantage of my Caveat right but send the patent in as soon as possible, in the meantime we
patent delay
will right Woa
interference is utterly worthless.

Very Truly,
T. A. Edison

March 18.79

Eugene Phillips Esq
Providence R.I.

Dear Sir

Please send immediately
seventy five (75) pounds of
wire like sample enclosed
No 11 Birm' gauge = 0.120

Very Truly
T. A. Edison

March 8

Geo H Bliss Esq
Chicago

Dear Sir,

Referring to your
of the 7th regarding Grove
matters I cannot entertain
the idea of bringing him
out. I would much prefer
fighting it out.

Very Truly
T. A. Edison

CCCS

L. W. Serrell Esq
New York

Mch 18, 79

Dear Sir. Referring to your favor of the 5th regarding the Light case 166 I sent you an analysis of the. The original patent should have been kept, there is nothing in Eng pat 2094 of 1877, to interfere

Yours truly
T. A. Edison

231

Mch 24th 9

W.E. Sawyer Esq

Dear Sir.

I never had any hard feelings towards you, although I have at times been hurt by your remarks to other persons, I cannot meet you as desired, because I have no time If you desire I will send my secretary Mr Griffin, or you can do the business by mail.

Yours Truly

H Thomas

March 24. 79

L. W. Serrell Esq
N.Y.

Dear Sir

Referring to your favor of the 21st regarding Mr Bein and the assignment of the Huffman patent I wish to say that there are no considerations in the matter, and I also wish to say that it must be an undivided assignment. The license is no part of the consideration and I cannot nor will I sanction the assignment upon any such understanding of the contract [illegible]

indicated by me it need not be made out at all.

I enclose an order on the W.E. Mfg Co for Mr Bein's fee [illegible]

Very Truly
T. A. Edison
per

March 25. 79

Corliss Engine Co
Providence R.I.

Gentlemen.

If any of your representatives come to N.Y. and can spare the time I should like for them to call on me at Menlo Park in relation to Motive power for my Electric Light system

Very Truly
T. A. Edison

March 25. 79

Geo. H. Bruce Esq
Chicago

Dear Sir.

Bailey is here from Boston. The Telephone stock is not yet issued. If Bailey's plan can be carried out we shall get a considerable sum of money from the Continent. If Storey is not the right kind of party or the few Bailey would take hold of it and form a Company

Very Truly
T. A. Edison

C. W. Farwell Esq.
New York

March 25. 74

Dear Sir

Bliss writes me under date of mch 21st regarding Orient as follows.

"xxx This includes the transfer of his patent which will go to you. Telegraph me authority on receipt of this to have lawsuit taken in suit without damage. this is the only sensible thing to do."

I have not telegraphed because I think the law firm there may have authority on such [illegible]

Very Truly [illegible]

Geo. H. Bliss Esq.
Chicago Ill

March 21 74

Dear Sir

Yours of the 21st was duly rec'd. I did not know that Orient had a patent or anything the law firm there has authority to do what you request.

Very Truly
C. W. Farwell

SSS

March 25th

C. Stoddard Esq.
N.Y.

Dear Sir

I wish to obtain the last annual report to the stockholders of the Gas Companies in N.Y. if possible for 2 or 3 years back. Please ask Mr Galloway if he can give you the statistics on the following points.

The total capacity of the gasometers of the N.Y. Companies taken by themselves.

The amount of actual capacity employed in every day work to the total capacity.

The number of retorts necessary to manufacture the gas of a given Co. as used in daily practice to the total number of retorts necessary but

2

not used.

The number of employees in the house. The average wages. The average amount of gas made.

Amount of Coke used for fuel per 1000 or 10,000 feet and also amount of Salable Coke.

Amount of oil used for enriching per 1000 ft of gas.

Amount of horse power used in the works per 100,000 ft of gas made.

Yours truly

[illegible] dise

MENLO PARK, N. J.
U. S. A.

Oct. 20. 79

Geo. H. Bissing Esq
Chicago

Dear Sir.

Your telegram of the 18th regarding the Quiet suit has just been rec'd. I have already written you to dismiss the suit. I would also inform you that the Courts have full power to dismiss it.

Very truly
T. A. Edison

111

Apl 10 79

Friend Prescott

Your favor of this date is just to hand. I agree with you to let the matter be Confidential for the highest bidder.

Now Brother. You folks do not seem to take much interest in this instrument as I have been working up the Eastern trade. Send a Cable order. You can have a complete outfit. The time is worth as this worst wire and no other telephone can be made to work as well as ours so you herefore take an interest in the matter I will see what I can do.

Very truly

S. G. Colton

Apl 10 79

Mr. D. Mott Esq

Capt. N.Y.

Dear Sir

Your favor of this date is just at hand. I think the tickets should be made to read one dozen buttons. These should be other made. Which will be sufficient to keep the Counters supplied for the rest of mankind one might well use Lasting & Collins and Kelly Cuts Finish - I am satisfied that last has been lost in one month's trial - as the buttons get broken badly pinched in Collins, and in Lopez - perfect rigidity is required and the tube is not nearly so good as R. S.

Very truly

G. T. Colton

April 10 79

My dear U. H. P.

You favor of the 9th just rec'd. Please subscribe for the Official Gazette for 2 years and also make a deposit for me of 10 or 15 and send items and I will send you a check. Please call and see on this as it is important to me.

I do not know what I can do or get that would like to have a copy of everything "Electric" since the middle of Feby last.

Very truly
T. A. Edison

April 10, 79

L. W. Serrell Esq
New York

Dear Sir.

Referring to your favor of March 19th which has just come, I would please have the matter appealed from decision of Mr. C. in chief for reason already stated to you. It is a new art and I wish to carry it through.

Very truly
T. A. Edison

Menlo Park N.J.

April 16. 79

Unknowing Sirs &c
Wilmington Del.

Gentlemen I find other knowledge
concerning [illegible] that your [illegible]
have to say [illegible] your [illegible]
invention and I [illegible]
other and for [illegible] and other [illegible]
use it [illegible] if you could use
it to that it would [illegible]
for which [illegible]
about like the [illegible]
[illegible] you. Can you [illegible]
[illegible] in this [illegible]?

Very [illegible]
[illegible]

Menlo Park N.J.

April 16. 79

L. W. Serjeell Esq
N.Y.

Dear Sir

Referring to your
[illegible] of the 15th inst. regarding
Dr Mott's I think the
[illegible] was made by
Dr. M. who is a chemist
we want to learn out who
made the information and
where it applies. I do
not know who Prof is
or anything about his
antecedents

Very truly
T. A. Edison

Oct 24 79

H. Villard Esq
Sec'y Treas

N.Y.

Dear Sir

In reply to your
favor of the 21st I would say
that I cannot take any of
the stock as brokers and I
have not the funds to invest.

Very Truly
T. A. Edison

May 22-79

My dear Tuckey

I have just rec'd the following letter from Sewell. Please write him to notify you what is necessary to conform to the law.

Very truly
T. A. Edison

Thos. A. Edison
Menlo Park
New York May 21, 1879

Dear Sir. I have to advise you that your Belgium patent on Phonograph No 4756 June 1st 1878 requires to be worked in Belgium within one year after working elsewhere in order to maintain the validity of the patent.

Yours truly
signed Francis Sewell

FROM THE LABORATORY OF
THOS. A. EDISON
MENLO PARK, N.J.
U.S.A.

May 22-79

Hon Geo Walker
Vice Pres't New York

Dear Sir.

Your favor of the 21st regarding the new receiver has just been received.

I shall in all human probability deliver you six new telephones complete before the 22 of June.

Very truly
T. A. Edison

343

MENLO PARK, N.J.
U.S.A.

May 22 '79

[illegible]

[illegible]

[illegible] the 21st [illegible] the application for a patent on Phonograph [illegible] not at [illegible]. You may stop the fly wheel again.

Very truly yours

T. A. Edison

MENLO PARK, N.J.
U.S.A.

May 22 '79

[illegible]

Dear Sir

Your letter of the 21st relating to the Belgian patent on Phonograph has just been received [illegible]. I will write further in regard to it but I wish you would do the same [illegible] what to do [illegible] the law

Very truly

T. A. Edison

May 26th 9

W. P. Cisco Esq
Port Huron Mich

Dear Sir
Your Brother wished me to write and ask you to have prepared a statement of the debt of the C. & H. and the money in the treasury and moneys due on the 1st of June 79

Please send this statement as soon as possible

Very truly
A. L. Tuttle

May 26th 9

Dear Sir,

Enclosed I send you £ [illegible] in cheque from [illegible] which please [illegible] to my credit.

I take from you a catalogue & following list of books which [illegible] of your earliest convenience, and bill for the same and I will remit. By the [illegible] receipt of the other you will [illegible]

Very Truly Yours
J. H. Chapman

Leonard Dealtry Esq
London

14. 916 Trans Chemical Royal Society from 1770 to 1873 £ [illegible]

15. 107 Proceedings Royal Irish Academy from 1830 to 1870 £ 6. 0

Trans Geological Society of London 2 Vol £ 24.

Minutes of Proceedings of Inst Civil Engr 1842 to 1877 37 Vols £ 40.

11 741 Final Report U.S. Notes on Colombia 1857. 23
250. Phila 1857.

Chas Francis & Henry & Co Trees [illegible]

1451 Cosmos Vol [illegible] U.S. Geo [illegible]

[illegible] Royal Irish Academy [illegible] Trans & Proceedings [illegible]

[illegible] Proc of American Phil Society [illegible]

[illegible] Proceedings of the [illegible] 1861 to 1875

790 Chem Gazette 1842 to 1859 [illegible] Vol.

788 Journal of the Chemical Society [illegible] Vol.

951 The Geologist 16 Vols [illegible]

1051 Lisbon Acad of Science 22 Vols [illegible] £ 20

1118 Annales de Journal des mines 15 Vol. £ 20

1375 Phila Trans of the Royal Society 1851 to 1875 [illegible] 60.

1402 Victoria Phila Inst 6 Vol. £ 5. 10

May 26, 79

Scientific Publishing Co
New York

Gentlemen,
Please send the following list of books by Express C.O.D. or send them and send bill and I will remit.

Very Truly
T. A. Edison

Hinton on Arizona
Blake's report 1867 & Vol 2
Copper Hand book of mining law
Dana's manual of Mineralogy
Mullane miners guide
Taylor - Productions & mines of Mexico
Gill - Silver mines of Mexico

May 26 79

Dr. A. C. Foote
Phila

Dear Sir,
What will you take in exchange for several lots of nickel [illegible] for [illegible] or for charge of me [illegible] for [illegible] would like to exchange with you if you have any [illegible] particular [illegible] found in this country [illegible] about [illegible] Do you know [illegible] electricity in the [illegible] room [illegible] the metal [illegible] pure?

Very truly
T. A. Edison

May 29. 79

C. A. Johnson Esq
Jersey City

Dear Sir

Your favor of the 24th is just last Mail. I accept with pleasure the discount you tender herein.

Very Truly
F. H. Quinn

Mar. 29. 79

M. A. Fraser Esq
Newark N.J.

Dear Sir

Enclosed please find check for $33.75. Please place to my credit and obtain receipt.

Very truly
C. A. Quinn

T. A. EDISON,
MENLO PARK, N. J.
U. S. A.
May 29. 79

W. C. Cornell Esq
NY

Dear Sir,

When will you be ready to send that Provisional Specification No 4 to England on Light? It ought to be filed soon as possible. If it will worry it it may be a Postponication to Pneumo

Very Truly
T. A. Edison

T. A. EDISON,
MENLO PARK, N. J.
U. S. A.
May 29 79

The Scientific Publishing Co
New York

Gentlemen

Enclosed please find Check for $9.00 Please place to my credit and acknowledge receipt.

Very Truly
T. A. Edison

Confidential

Washington June 22nd 1864

My Dear Cushing

I was very much surprised today by the receipt of a letter from my Nephew dated from Paris, so I called him home. He was ready to return to Mobile as the mission was accomplished and I wish to say that if he remains in Europe he does so on his own responsibility and that he is not acting in any capacity for me. I will also caution you that he has an ungovernable temper which when aroused requires about 2 weeks to become calmed down. This is for your information and I would prefer you would not mention what I have written to him

Very truly Yr. Obt. Servt

June 9th 9

W. H. Wallace Esq.
New York

Dear Sir. I hereby give you notice that the arrangement made with you by E. J. & Co. is cancelled for the reasons. [illegible] your position in the Government Co. is, generally speaking, that of Clark to Mr Wilby, and the work of Clerk with Telephones is quite limited. [illegible] Not what is represented by you. I also learn from several parties that you are not strictly temperate. This latter reason would be alone for the taking the [illegible] as I cannot risk the Telephone enterprise in the hands of a party who is not thoroughly reliable. I consider that the part of your misrepresenting the facts as regards your experience with the Telephone is also sufficient reason for my withdrawal of the agreement. Now that there may be no difficulty in regard to your receiving your recent position you may state your reasons. I will see that one are sufficient. If you wish to go to England as Second Man at a salary of $75 per Month you can have

2

that position. Under the circumstances this is the best and most [illegible] I can compliment to [illegible] for the [illegible] position as [illegible] the employ of Edison [illegible] try any experiment.

Very truly

Thos A Edison

Paris 11th 9

J. M. Bailey Esq
Paris.

Dear Sir
Your favor dated London on May 17th was
duly received. I agree to your [illegible]
[illegible] suggest that [illegible]
of the Memorandum Contract [illegible]

[illegible] to the other propositions as
contained in your letter and will have
the stock issued to Mr Parker Brothers as
requested and will explain the reason to the
other gentlemen concerned. The stock has
not been issued yet, I have just written
Mr Parker in regard to it.
[illegible]
[illegible]

Yours [illegible]
J. A. [illegible]

FROM THE LABORATORY
T. A. EDISON
MENLO PARK,
U. S. A.

June 11, 79

W. Lane Esq.
Dear Sir

Can you not clean up the coal matter? I am losing and do not know how I can learn anything. Tuesday attend to it.

Very truly
T. A. Edison

FROM THE LABORATORY
T. A. EDISON
MENLO PARK,
U. S. A.

June 9, 79

United States Mining Review
NY

Gentlemen

Please send the Mining Review by express C.O.D. and authorize the New Jersey Express Co to take a check on Drexel Morgan & Co for the same.

Very truly
T. A. Edison

June 18. 187

L. W. Serrell Esq.
N.Y.

Dear Sir

Referring to your [illegible]
of the [illegible] Case 17[illegible]
You may drop the 3d claim.

Very Truly
T. A. Eaton

June 18th 9

Thos Puskas Esq
Paris

Dear Sir. I have just received a Communication from L. W. Serrell of which the following is an extract. "I am in receipt of a Communication from Mess Brewer & Jensen stating that your Phonograph has been patented in Sweden Nov 29. 1878 for the longest term and by unusual term of 15 years. The invention must be proved to be worked there within two years by application made there."

Will you please have a small phonograph made there at once, and get a certificate from the party who makes it, properly attested. This phonograph must not be allowed to lapse and I hope you will see the importance of having this attended to immediately. Please acknowledge receipt of this letter and oblige.

Very Truly
T. A. Edison

June 22d 79

E. W. Serrell Esq.
N.Y.

Dear Sir,

Referring to your favor of the 14th regarding application 137 for a Addressing Machines, you may word the reissue claims to the needle in tube cu, in combination etc; in other words, word the claim to avoid these references.

Very Truly
T. A. Edison

June 26th 9

H. McR. Twombly Esq.
New York

Dear Sir.

I learn that you are trying to effect an arrangement to use my Automatic system on the new lines. Can something be done so the Western Union would take all the Automatic patents? I have a large interest in them and of course am like to get paid something for them. While the value of these patents for use upon the W.U. lines are at present small, owing to unlimited wire capacity the system is of great value to a new company with wire capacity, because it gives one wire the capacity of ten without any expenditure of capital. Line will always be [illegible] probably always be used and to have the W.U. patents combined in the business are that is invaluable [illegible] in Duplex telegraphy and [illegible] for years to come.

Very truly

Thos A Edison

June 30th

Messrs Park & Tilford
New York

Gentlemen Please send the following goods by freight today as I must have them tomorrow.

Very Truly T. J. Gilmore

6 Cans Boned Turkey
2 lb Can E Plum Pudding
" " Chicken
" " Quinnes
6 " Salmon
" " Sardines
5 lbs best table raisins
2 doz lemons
2 " Oranges
2 lbs white grapes
1 " Eng Walnuts
3 " P.B.S. Almonds
6 pinces assort pickles

2 bags Coarse [illegible]
12 lbs rice
5 lbs [illegible]
10 " best Coffee [illegible]
2 Hams
2 pkgs Maccaroni
4 boxes Soap

July 1st

Arnold White Esq
London

Dear Sir,

[illegible] the 19th [illegible]
a copy of the opinion of Mr B. H.
[illegible] on the subject of the [illegible]
[illegible] telephone [illegible]
[illegible] There is not a particle of
[illegible] my mind that the Field & Cowing
devices are both gross infringements
of my carbon telephone. I have wrote
to this effect to Mr Fischer & Bailey

Very truly
G. A. Cowing

July 1st

Mr Fischer Esq
Paris

Dear Sir,

I have a piece from London
stating that you have seen the [illegible] of the Field telephone. I consider that this
device is a gross infringement on my
patent and I do not consider that
it is quite right for either you or
Mr Bailey to bring it out, [illegible]
you are aware that it is an infringement

Very truly
G. A. Cowing
for G

July 7th 9

George I. Ladd Esq.
Pres't Gas & Stock Telly Co.
San Francisco

Dear Sir

Referring to your favor of the 27th ult. the enclosed bill is correct. There must have been some confusion arisen as we sent you 500 barrels 500 millions, not 500 million feet or billions.

The reason why the charges have been increased is that heretofore we have been using imported Vienna chimneys but the American competition has driven the former out of the market, while the American chimneys are very cheap, they are also exceedingly poor and we now break 10 chimneys where we formerly broke one. For instance last week we broke 50 chimneys and only made 900 barrels.

Very truly

[illegible]

July 9th 9

J. W. & C. D. Colton
New York

Gentlemen:

Your favor of the 8th was duly rec'd. Enclosed, please find Check for $4.50 - Please send me Nev. & California map (2 sh.) and for Oregon & Washington (1 sh.).

I wanted maps showing the Counties and all the smallest places and hope the above are of that description.

Please send the above maps by N.J. Express

Very Truly
J. A. Edi[illegible]
9

July 9th – 9

Chas Johnson Esq London. Eng.

Dear Johnson –

We send you today the following:-

(12) twelve complete telephones
(12) twelve extra chalks
(1) one sensitive board etc
(12) twelve Call batteries.

The 12 extra chalks are made of chalk and phosphate of Soda, and must not be ~~[illegible]~~ wet by dipping; but by dipping a piece of paper in the solution and letting it soak into the chalk from that.

We find this chalk never actually needs a second wetting, as we have left one out a day seven days and it was just as loud at the end of that time. They take a magnificent polish and of course do not appear to wear away at all. The solution we wet this chalk at first with is a saturated solution of Phosphate of Soda.

This letter is not official information for the company but private information for yourself; Carman will always notify the company of any shipments but alterations in chalks such as described he knows nothing about of course.

You will not find the phosphate of Soda quite as loud as the other at first but far superior in the fact that it needs no wetting and is always good

Yours
Chas. Batchelor –

July. 11. 79.

Louis Glass Esq
Cherokee Cal.

Dear Sir.

Your kind favors of the 30th ult and of the 2d inst were duly rec'd. Thanks for the information. The crew have not yet arrived and I will write later in regard to them.

I write now to say that I am going to send a pair of telephones and to send to you as soon as when you get them you need not indicate the source from which they came. I would like to hear from you how you like them.

Very Truly
T. A. Edison

T. A. Edison

Mr. W. Lambert
New York

July 11 1879

Dear Sir,

Course of the 10th is just at hand. I am sure if you were situated as I am you would not expect to receive of $50. The parties who are interested in this mine are strictly 1st class business men bankers and others in Detroit and any contract made with them is [illegible]

I start on a trip to the Pacific Coast [illegible] about a year. If you desire I will drop you a [illegible] giving you the royalty mentioned in my former letter [illegible] will indicate the mine. We are not mining [illegible] and all we want is platinum. I dont care for the gold and would not give a cent a ton for it, All I want is platinum and I am willing to pay for it, In case of success in your mine I will pay you a bonus of $50.

Very Truly
T. A. Edison

July 11.79

J. S. Phillips Esq.
San Francisco
Dear Sir.

Enclosed please find check for $10.00. Please send "The Explorers, Miners & Metallurgist's Companion" as advertised in the Mining & Scientific Press — sent to mail.

Yours &c

[illegible]

July 14. 79

T. S. Arthur Jr.
Greenville S.C.

Dear Sir.

Your favor of the 11th is just at hand. I will pay 75¢ per lb for Zircons in Crystal. These are found in abundance in Buncombe Co N.C.

Cannot advance money unless the prospect of obtaining platinum is very good. Platinum is said to occur in the black sand of the placers in Rutherford Co N.C. I send you a sample card herewith. How much do you want for 25 lbs of Samarskite?

Very Truly
T. A. Edison

THE LABORATORY
T. A. EDISON
MENLO PARK
N. J. U. S. A.

July 14, 1879

J. G. Lockhart Esq
Randolph Co

Dear Sir

Your favor of June 20th was duly recd. Many thanks for the sample sent. It contained a small quantity of platinum. That in the bottle was first class too. I have found a source of platinum which is practically inexhaustible. It is in the hydraulic placer mines of California. The matter taken from the flumes in cleaning up of the Cherokee Hat Mining Co or rather the Spring Valley Water & Mining Co of this same place carries 50 oz of platinum to the ton.

I have just finished a process for extracting it. They get the gold out by the Bilous pan process and the residue of sand they throw away. By my process I extract a large quantity of gold and platinum from the tailings. I think if all your sand is as clean as sample that my process would take out every particle of gold and platinum, as I get every scale of platinum; you can judge that anything that will do this will catch the gold. I am now about erecting it on a larger scale. Of course it is only a laboratory process and you probably know that laboratory processes do not always work in practice in fact not one process in 100 work in practice. I wish I could get a larger quantity of your sand but first I

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will use the Cherokee sand which is much more significant.

Platinum like your sample is worth from $18 to $20 per oz. This is the range of price at the Russian mines at present. I so far found to the price at Barranquilla City of Colombo S. A. I will try the same but I hardly think it would pay you to save it as it apparently occurs there in such small quantities. I want 100000 lbs or more. If you will send another box I would appreciate it. If I get my process working you can have it in exchange for the platinum you save.

Very truly
T. A. Edison

G14

July 10, 79

Wm. Hundley Esq
Ellensburg Or.

Dear Sir.

A friend kindly sent me your letter which appeared in the Oregonian. I would like to purchase some platinum and will take one oz or a million at $50 per ounce. Please send me a sample, and if it does not contain too much iridosmine I may be able to pay more. Send by Express C.O.D. or I will mail you check as you prefer.

Very Truly
T. A. Edison

July 14, 77

J. H. Rosa Esq
Randolph Or

Dear Sir

Your kind favor of the 28th ult with Sample just rec'd. Enclosed please find $20. Will you kindly get a Miner to pan out some black sand and send me the residue in a box by Express? I want to find out how it is distributed. I will pay the Express charges here. Again thanking you for your trouble

I am very truly
T. A. Edison

July 14, 94

Louis Glass Esq
Chemist Cuba

Dear Sir

The sample of sand arrived last week. I found a few ounces of platinum in the Chunk of Blue gravel, I sent through my stamp mill. There is plenty of platinum in the sand as it comes from the flume (the middle compartment of the box) and a considerable amount, about 1/3 as much platinum in the sand after it has passed through the amalgamating pans. I am now having an accurate analysis made. Perhaps there is some material about the sand which has passed through the amalgamating pans as I find when treated with acid there is a great deal of gold in it but it takes a long time to make its appearance being in the nature of the fine magnetic particles. How many barrels of sand do you work per month or year? That is I want to get an idea of the quantity of sand taken from the flumes, the total product which I can figure on after I have the analysis. I have 4 of my young men working up processes to get the gold and platinum out of the sand after it has passed your pans. If we succeed and you will let us have the sand we will give you the gold as I don't care anything about that and I don't want to make any money except scientifically. Am going to start a man for your place a man who will carry a good pellow and who is a thorough first class mill.

I rec'd a sample of black sand Saturday from Guilfella Mendocino Co - This sample had not been worked

and I found 3 times more platinum and iridosmine than there is in it. The writer says there is lots of the sand. My agent will probably want to hire a workman to work with him through the state. Do you think he will have any difficulty in hiring one?

In regard to the platinum near Oroville to which you refer What would be the probable cost of working for that vein which you speak of as being discovered several years ago?

Send you a "Daily Graphic" with a few cuts which may interest you.

I will also send you a Bunsen Solution in a day or two - tried to get two but failed.

In the course of 2 or 3 weeks I expect to have some of the new style Chemical receivers. Not having the right to sell or give them away I will loan you 2 permanently and anything else I can do for you do not hesitate to call on me. Thanking you for your courtesy in giving information and for the sample of sand.

I remain

Very Truly Yours

Thomas A Edison

674

July 14 1874

A. Klein Esq
Copella Cal.

Dear Sir. Your favor of the 3d and sample rec.d & judging from the amount of gold to the amt of platinum contained in the sample. I hardly think it would pay to mine for platinum alone. The gold is in such great excess. I send $20 herewith for you to hire a man to collect some samples if you will kindly do so and send the same to me by Express. Let the first sample be about 5 lbs of the Mother Earth, about 20 or 25 lbs of the black sand containing gold and platinum. I dont want it panned down to show color but a greater portion of the Mother Earth washed away so that the general appearance of the 25 lbs will be dark. Please have the man keep note how much Mother Earth was washed to obtain the 25 lbs black sand. The sample you sent was panned out so I could tell nothing about it except that it contained a great deal of platinum and iridosmine. I suppose you have seen the stuff they take out of the flumes in cleaning up. I want the sand panned down to about this condition. I will pay the Express charges here. Any other information you have please send on. I expect to see a man out in a few weeks who may call on you. My present impression is that we will get all the platinum we want of the Spring Valley Cherokee Co. but I desire to investigate o.k.

A. Robinson

July 16. 79

J. W. & C. B. Colton & Co
New York.

Gentlemen. Please send me the following maps unmounted by Express C.O.D., or send bill upon receipt of maps and I will remit. If C.O.D. please instruct the Express Co to accept check or draft in payment & C. in taking facilities free.

Very Truly
T. A. Edison

Africa. Large 4 sheets 58 x 46 in
Arizona & New Mex 27 x 18 in
Asia - Large 4 sheets 58 x 44 in
Bolivia 76 60 in
Brazil 68 x 60 in
California & Nevada 67 x 57 in
Canada, The Dominion of, with New Engl & New York & part of Maine
Central America 43 x 38 in
Colorado Utah & Wyoming 27 x 18 in
Dakota Sectional 37 x 33 in
Georgia 38 x 31
Hayti, Santo Domingo 29 x 18 in
Idaho, Wyoming & Montana 28 x 18 in
Lake Superior Mineral region 87 x 54 in
Mexico, Nueva Mapa De 53 x 41 in
Montana 49 x 30 in
New Jersey 70 x 58 in
North Carolina 63 x 30 in

Oregon (Hebrewsh ans) 35 x 33 in
South Carolina 34 x 31 in
Virginia, West Virginia, Maryland & Delaware 18 x 14 in
New York Topographical map of the State of 74 x 70 in.

July 16. 79

Hon Geo Walker
Vice Prest N.Y.

Dear Sir.

In reply to your favor of the 14th I would say regarding the assertion that I am making 500 Telephones

1st It is not true

2d I have only sent 4 unsodifodating Telephones to Europe.

3d I made 50 but they were spoiled in trying to sod them out, so, I had to commence again. I want to make them perfect and just as soon as I get them perfecting will deliver you models. The instruments of which you have reports are merely experimental.

Very Truly
T. A. Edison

(c)

Orley 16. 1879

My Dear Mr Edison

Your favor of yesterday is just at hand. I have made a lot of new receivers several styles of them all of which proved in some way defective. I made 50 of different kinds at an expense of from 15 to $800 and threw them all away. I want to be satisfied with the instrument before it goes out of my hands, it saves money all round. Of course as I am to receive $1 for each instrument in use by the Company its to my interest to place them in their hands as soon as possible. As long as I saw a chance to improve them I kept at work. I expect now in two weeks to deliver model instruments which will work right in on your telephone Exchange System and be perfectly satisfactory.

Very Truly

T. A. Edison
Jun

July 16, 79

L. W. Serrell Esq
New York

Dear Sir,

Referring to your favor of the regarding the 4th annuity on my Stolen Coat of Aug 25th 1876, Dr Bliss does not pay it by Aug 2d please pay it and charge to my account.

Very Truly
T. A. Edison

July 16, 79

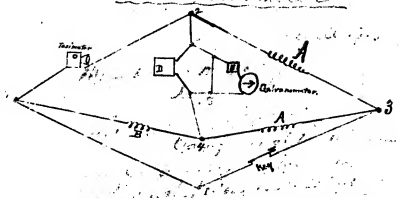
Geo. W. Hall Esq
NY

Dear Sir,

In reply to your favor of the 14th If you will come out to Menlo Park I will pay your board and assist you in making your machine. I want to see the thing in practical operation

Very Truly
T. A. Edison

Directions for setting up and adjusting the Tasimeter



To set up the instrument the following materials are used.

The Galvanometer giving the real results in Thomson's Coul resistance reflecting.

A resistance E of 20 ohms in series with the same wire. Across the ends of this resistance a short wire is placed adjacent completely closed circuiting the Galvanometer. A second resistance Coil D plug out. The resistance is always around. This galvanometer behaves as a shunt.

The Tasimeter is one branch of a Wheatstone's bridge 10 ohms in and 20 ohms in B. 1 cell is connected thereto as a gap. One cell is called being used as a light for the galvanometer [illegible]

The galvanometer being as sensitive as possible the key is touched shortly and lightly a deflection is made to contact. The spot should then be made to the left by the [illegible] on the galvanometer [illegible] the spot brought to zero by [illegible] of the Tasimeter to the left, but the light to the right. As a balancing or [illegible] spot may be thrown off [illegible] Either the spot remains on the [illegible] the key is closed [illegible] the spot branches on the key may be [illegible] the spot [illegible] Again [illegible] resistance and to [illegible] one of D and the spot [illegible] a zero. Then the plugs may be put back in D and the wire belonging to E unwound. Again the plugs may be removed from D and all wound out in E. If great delicacy is required two or three pallands wire may be put on the circuit. Then the rest of the hands will [illegible] shown from a distance of 30 feet.

The Tasimeter may be placed in a case of tin having two air paper jells and hair. The wooden rod may be turned to a wooden rod [illegible] the [illegible]

(C)

July 16th 1879

E.H. Johnson Esq,

London Ont.

We ship you today four (4) telephones of a new pattern, the receiver on an independent arm which swings down to your ear, and the transmitter stationary, in a box screwed to the wall. Edison has decided on this as the telephone best adapted to do the work, for this reason: that we stand in a disadvantageous position in regard to the other telephone, inasmuch as they put the instrument to the ear, thus excluding out all extraneous sounds, when they want to catch local sounds, collect on diaphragm so far away, that weak sounds are difficult to get

unscrew the screws in chalk mandrel, and pull short shaft out, thus getting you chalk out.

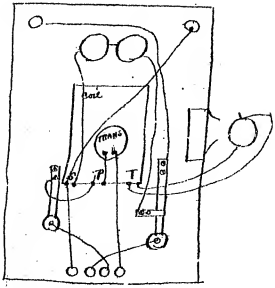
On the 21st we shall send you eight (8) more (12) of which will have a new transmitter on which I think you will like because it can never get out of adjustment. We call it the inertia telephone because it works by inertia, the whole working part being fast on the centre of the diaphragm. Page 4 of this contains a diagram of the connection of the new bracket

Yours faithfully,
Elisha Gray

pr. T.A.B.

in a noisy room. Now by putting the receiver on an arm, we get it just so loud, and also have it close to the ear. In this shape as you see it is a much cheaper instrument to make. These telephones are supplied with chalks made of chalk and phosphate of soda, we having adopted that as the standard chalk for the reason that it is always the same, will come from it, needs very little wetting, and glaze or rubbing. The receivers we send, are on arm that are unscrewed from base, and fastened against the side of box. The back of receiver unscrews out, giving you a chance to wet the chalk with a camels hair brush if necessary. If you wish to take a chalk out you will find on the worm wheel which is long sleeve, which pull toward the worm and the shaft divides in 2 lengths, then move the piece in

4



July 16 .79

Geo H Shin Esq
Chicago Ill

Dear Sir

I have just recd a letter from the Sewell of this the following is a copy. "I have to advise you that the 4th annuity on your Italian patent of Aug 26, 1876 on Autog printing is due Aug 26, 1879. The amount of this annuity is $20 and stamp expenses and the funds should be sent from time Aug 26 in order to be in time. Please let me know your wishes in the matter"

Will you please pay this.

Very Truly
T. A. Edison

July 16 .79

Geo H Shin Esq
Chicago

Dear Sir

Referring to your favor of the 12th regarding Josiah Shew, is it not an infringement of my patent?

Very Truly
T. A. Edison

Letterbook, LB-005

This letterbook covers the period July 1879-May 1880. Most of the correspondence is by Edison and is in the hand of Stockton L. Griffin or William Carman, acting as Edison's secretary. The book contains correspondence relating to a variety of subjects. Included are letters about the electric pen, the domestic and foreign telephone businesses, and royalty payments for telephone and telegraph patents. There are a few letters pertaining to the phonograph and the electric railroad and a technical note about a telephone annunciator. Included also are a few items of correspondence concerning the death of Charles P. Edison in October 1879 (see also D-79-014 ("Edison, T. A. - Family"), Document File Series). Among the recipients are Edward H. Johnson and Lemuel W. Serrell. The spine is labeled "1879-1880" and is stamped "Letters." The book contains 887 numbered pages and an index. Approximately 20 percent of the book has been filmed.

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Ely 18th 9

Dear Sir,

If entirely convenient may I trouble you for replies to the following queries? I am endeavoring to collect statistics regarding the product of platinum from all parts of the world as it will be largely used in my system of electric lighting. I have succeeded in finding this metal in paying quantities in California and Oregon and am desirous of ascertaining the price for the same in Russia which at present is the only market in the world for platinum.

1 What is the total annual product of the Russian mines?

2 The amount exported?

3 To what ports is it exported?

4 The average price in St Petersburg per oz or other weight?

An early reply will be greatly appreciated.

Very Truly

Thomas A Edison.

U.S. Minister St Petersburg Russia.

C

E. H. Johnson Esq
London Eng

July 21. 1879

Dear Sir

I hope you have received the enclosure which I am absolutely certain will prove perfectly satisfactory in every respect. They have the merit of being simple, convenient and cheap and not at all liable to get out of order. (You will perceive that the chalk is now in a perfectly closed receiver. The chalk is a bicarbonate of Soda one and of all substances that is the most perfect one. It seems to be absolutely perfect lasting days when exposed to the air. The water is perfectly neutral does not change. You may find a crystallization on the surface of the chalk when they arrive as I fear they were shaken too thoroughly. They work just the same whether it rests on pulley or not.

We make a concentrated solution of Bicarbonate of Soda then dilute with to buck water, and with better copying brush. The surface is the smoothest of all chalks and never changes without you saturate the chalk too much then it crystallizes out. With the receiver in the form sent we gain all the magnetic possible as when in the old machine it was hard to hear owing to distance away we can with this get the same loudness. The handle goes easier and the whole thing is better. We send 8 more next week

4 of which will have a different kind of handle as polished, Mahogany, Rosewood and 2 others with Combination the Inertia Telephone transmitter, that will not get out of adjustment, is adjusted in a second, costs 20 cts and can weigh 25 pounds and get talk 8 miles from it.

Three ones we will send to Inertia and by express and we can up the balance of Bergmans transmitter then by that time we can hear your decision as to the one you want.

For the first time I feel perfectly at ease on the Telephone. We are going to set up a farm in N.Y. next week as standard. You know I would not do this if I was not perfectly satisfied.

If there are crystallizations not change them off with water and it will thereafter be all right. I state as a fact that these chalks will not need renewing more than twice each year.

Satisfied write you further details.

Very Truly
T. A. Edison

FROM THE LABORATORY
T. A. EDISON
MENLO PARK,
U. S. A.

July 22 79

Adolph Cutter Esq
Sutter Nev

Dear Sir,

I understand you have considerable water power from your tunnel or from the Carson River. If this is a fact I can inform you of means of my new Dynamo Machine 65 per cent of the power in Virginia City with a very inexpensive plant. If this proves of interest to you please report. I will give further particulars

Very Truly
Thos. A. Edison

Mr. Pacchas Co. July 23 74
Rue Rivoli
Paris France

Can I make arrangements with a Company operating telephone Exchanges in Australia on an advance of 2½ per cent royalty with an advance of $10 000. You had better accept this as you will not do anything with it in Paris and the time will go by with the opportunity. I send you a Magnetic receiver today which if you are going to use that kind is the best one for your purpose.

Please reply promptly

Very Truly
T. A. Edison

July 24, [illegible]

Messrs Leggat Bros
NY

Gentlemen.

Have you got or can you get "Travels in the interior of Colombia South America by Col John P Hamilton, [illegible] 1823.

and Colombia — Colombia by Col Francis Hall [illegible]

Very Truly
T A Ellis

Messrs [illegible]

Gentlemen.

Have you got or [illegible] You get for me the "Narrative of the Exploration for an Interoceanic Canal" [illegible] the isthmus of Darien & the [illegible] New Granada [illegible] by Lieut C Truxtun. published by Harper & Brothers 10 Frankline St Phila 1854.

Very Truly
T A Ellis

Orange N.J. 9

Mrs Briers & Harris
Wilmington N.C.

Dear Madam.

Your favor of the 7th was duly rec'd. also the Copy of the "Morning Atlantic". I send you herewith a sample card with platinum illus. I will take One million ounces of platinum and pay one dollar per ounce. Can you send me a sample of the North Carolina deposit to which you refer?

Very Truly
T. A. Edison

July 20th 79

Geo H. Fitzsell Esq
Pat

Dear Sir Your favor of the 18th is just at hand & have not got the model made as about sending it to Sewell & am afraid Short will be ahead of me. However there will be no interference any how.

In the meantime you had better see Scudder man and have a communication sent to Patent Office calling for interference between both cases and say each U.S. that will stop the matter and keep it in the Patent Office until I get the other patent in. Have it sent the communication in at once.

Very Truly T. A. Edison

July 27.19

My Dear J.C.R.

Yours of the 28th was duly received. I know with T and will do nothing without you, but this cannot go on forever. Riff. I'll give you 2 months to make some kind of a showing I think that will be a fair shake all around.

Very Truly
J. F. A. Carson

Office of Carson
London

July 7.19

Dear Sir,

Your favor of the 1st regarding the Manufacture of Hose received was duly received. I will do as you suggest about the fragments, there will be no delay on this account. I merely mention what style will be required and am sending different styles and do not yet know what kind will suit your purpose.

Yours
J. F. Carson

Dear Johnson (C) Oct. 31st 1879.

We got your letter and glad to hear you had pleasant voyage.

We send you today the eight instruments promised in my last: they all have inertia transmitters in them but not plumbago ones, we put "a small piece of carbon cut from one of the Yablochkoff candles, they are simply immense and the beauty of it is you can talk either into the mouthpiece or six inches away and it is equally clear and does not lose its adjustment — In the lot you that were packed of this lot which have rubber mouthpieces, you will find that the rubber pressure spring has a pin from screw pressing on it; this we find, really gives better result than cap. So we have sent you a number of the pins to put in the others. — We have also sent you a number of transmitter cartons although I dont see how you will ever need them. — We also send you (8) eight extra chalk buttons which have not been wet at all. — Edison says to please deliver two complete instruments to Puskas as only six out of this eight are billed to London. — Will soon now give you a lot of these.

Very respectfully Yours
Chas Batchelor

July 31st 9

Messrs Park & Pilsford
New York.

Gentlemen,

Please send the articles mentioned below at your lowest cash prices. Send bill and I will remit.

Very Truly
S. H. Eg

1 Barrel best family flour
½ Bbl fine granu. sugar
1 Doz Cans Royal Baking Powder
½ " Cans tomatoes
½ " " String beans (French)
1 " " Green Peas
1 " large boxes sardines
6 Cans Salmon
6 " Lobsters
6 " Peaches
6 " Pears
6 " Pineapple
2 " Cans Brook
4 Kgs Chocolate

4 Kgs Coconut
5 lbs good red tea
4 qts White brandy
10 lbs unground Java & mocha coffee
10 " Honey
10 " Rice
1 Kg Macaroni
5 lbs Sago
4 Kgs Durgens starch
1 Doz cans Corned beef
3 bottles Florida water
1 large bottle Cliquot Jockey
1 Kg Milk
1 " brandy
[illegible]

2

1 Gal Port wine
2 large bottles Champagne
2 doz lemons
2 lbs almonds
2 " Pecan nuts
½ lb ground cinnamon
1 lb best ground pepper
1 " " Mustard
1 " " table salt
4 bgs fine table salt
2 good Hams
½ Doz Cans turkey
½ " " Chicken

Please send by freight
Tomorrow Friday P.M.

July 31 9

Gentlemen

Please send immediately

1 qt glycerine
2 bars Mottled Castile soap
2 " White " "
1 qt alcohol
1 " Turpentine

Very truly
Mrs T. A. Edison
per

Condit & Hanson
Newark N.J.

Aug 4. 79

L. W. Serrell Esq
New York

Dear Sir.

Herewith please find copy of a Communication which I have just rec'd from G. W. Sorrer Esq. Please have the assignment made accordingly.

Very Truly
T. A. Edison
per

No 3 Broad St New York
Aug 1st 1879

T. A. Edison Menlo Park -

Dear Sir.

In preparing to make assignments of your English patents to Tebbins & Lowry I find from Mr Serrell that one of them was issued to Edwd English Brewer in a Communication from yourself. There must be assignment in that case by Brewer either first to you or it may be directly to T & L as trustees. Will you instruct Mr Serrell to make such one of these two modes of assignment make as we may decide to be best. I have written to Mr Serrell on above points.

Very Truly
(Signed) G. W. Sorrer

2 Enclosures

Aug 7, 1889

To C. Gurney & Co.
London

Dear Sirs:

I have just rec'd a communication from Frank E. Mckay of N.Y. a copy of which I enclose. I also enclose a copy of my reply to the same. What does it all mean?

Very Truly
Thos A. Edison
per

T. A. EDISON,
MENLO PARK, N.J.
U.S.A.

Aug 7

Aldersgate Street
London, Eng.

Dear Sir:

Your favor of the 31st ult. was duly rec'd. Thanks for the information. I will the data and forward to you at the earliest practical moment.

Very Truly
T. A. Edison

Aug 11 1915

L. W. Serrell Esq
N.Y.

Dear Sir,

Referring to your letter of the 9th regarding the telephone interference case I will be ready by the time stated (2.30)

Yours truly
T. A. Edison

(c)

Glenstrae Park Sept 1st 1899

My dear Johnson,

We have just got your satisfying information that you have finished & the beauty of the new design. Also received yours of Aug 9th and shot one, day before. We are now making thirty telephones, which we shall send on next week direct to London, and we shall endeavour to give you thirty per week thereafter; the parts are being made by different parties; some by Bergman and some down East; but the whole thing is put together by us, so as to make sure of your getting them all alike. We shall send you the Chalk cylinders all pure, without any phosphate of Soda in at all, and you must wet them with a solution of one thimbleful of a saturated solution

2

of phosphate of Soda & your tumbler of water. When applying to the Chalks, about four camels-hair-brushfulls ought to be sufficient for each; this may not appear bad enough at first, but they will come up bad in two or three days. — The action of the Chalk as we understand it is as follows: the water evaporates from the surface, and that from the inside works outwards to replace it; thus always making a more concentrated solution at the surface; so in time all the phosphate will be on the surface in the shape of dry crystals, when it will no longer work, as a cylinder of pure dry phosphate of Soda will not talk at all. Now this action must be prolonged as much as possible, and therefore it wants, the smallest possible amount of phos. of Soda with the greatest amount of water, & wet the Chalk as much as it will stand, and talk good.

8.

[illegible] is no place for the coalds to go except by evaporation through the small hole where the shaft runs out. I cannot conceive but that it must take a very long time (if properly welled) before these cylinders play out.

You mention that you have to adjust the rammitten occasionally, this should not be, and I assume it is due to you using a Caton battery which gives a spark and heats the carbon when adjusted so far out. Would it not be an profitable to use Leclanche's as always are Callan and consequently don't have that trouble. We have had a pair of telephones between Edison's house and the office for last 3 weeks, and Edison himself acknowledges they are just as loud now, as when put up although we have never touched them at all. Edison thinks it much better for you to get what tools you want there instead of sending them)

4

from here [illegible] that for there are many matters of [illegible] importance apparatus there, and [illegible] can get just what you need. Edison [illegible] just returned from Saratoga [illegible] meeting of the A.A.A.S. has been [illegible] He spoke 2 [illegible] on Saturday night & exhibited the [illegible] for the first time I believe he has taken the stage and he did it excellently.

I send you Tribune with account of it. The telephones in Gold & Stock are all in excellent trim except the one in Little Phelps shop, which must always have it adjust, because it runs [illegible] after he left before". This of course is what we expected there, but reports of them are very Good.

With kind remembrances from all

Believe me Yours truly

Chas Batchelor

Sept 1st 77

Arnold White Esq
Secy London

Dear Sir,

Your favor of the 1st inst was duly rec'd. Owing to the fact that all Telephone manufacturers are driven to fill orders for the U.S. Telegraph Co. I am having the parts made in different shops, and will put them together here. I will ship the first shipment of the 500 lot this week and other shipments as soon thereafter as possible.

Very Truly
T. A. Edison

(c)

Sept 5 11

L. W. Serrell Esq
New York

Dear Sir

I herewith return the application for the Medical preparation. I think it will be better to let the Pat Office know what has been done on your suggest.

I want this patent assigned to Francis W Jacobs Chas H Lewis and William McMahon - the two former of Boston the latter of Rahway, N.J. Consideration one dollar.

Very Truly
J. T. A. Co
19

Sept 5th 1879.

Wm. H. Allen Esq.
Chicago Ill.

Dear Sir

Yours of Aug 31st
just at hand & I have
you $120 Mexican dollars
&c. [illegible]
[illegible]
[illegible] until you [illegible]
[illegible] are being worked up
will buy 50 for [illegible]
no more. I would like
[illegible] Gracias [illegible]
for help & for letting me
which I was in need of this
of Light. All in Saratoga at the
weeks but not receive your [illegible]
until [illegible]
[illegible]

[illegible]

[illegible] Platinum business
[illegible] you [illegible] for it!

Yours [illegible]
[illegible]
[illegible]

L. W. Sennell Esq.
N. H.

Dear Sir, Referring to your favor of the 16th instant, the testimony interferences I will be ready to put in my testimony in White days from date.

Very Truly
[illegible]

213

Sept 18 79

Edward P. Hampson
Dear Sir
Mr

Edison requested me to say that he would advise Mr Kinney not to wait for the Electric machine alight as it may a long time before they are ready for the Market

Yours truly
Wm Carman

Sept 15

E. P. Hampson Esq
N. Y.
Gentlemen
[illegible]
the Algonquin [illegible]
[illegible]
[illegible]
of Coupling [illegible]
[illegible]
[illegible]
Yours [illegible]
J. A. Lodi

2

3 lbs. Cocoa nuts
10 " Oat meal
6 Jars Wor Sauce
1 kit Mackerel
2 bottles Florida Water

Sept 20 - 79

Messrs Park & Tilford
New York

Dear Sir,

Please send the following
by freight via Penna R.R.
Pittsburgh & Lake Erie
Yours Truly
J. Mc[illegible]

1 doz Cans Corn	1/2 doz Cans Plum Pudding
1 " French Peas	8 lbs Coffee (ground)
1 " Peaches	10 " Mad Tea
1 " Quinces	5 " Prunes
1/2 " " Tomatoes	2 bottles Olives
1 " " Tomatoes	1/2 " Olives
1 " " Mexican Peas	[illegible]
1/2 " " [illegible]	
1/2 " " [illegible]	
1/2 " " [illegible]	
1/2 " " [illegible]	

Sept 20th 1871

Charles White Esq
Mark Lane
London

Dear Sir,

Referring to your favour of the [illegible] in reference to patenting the Hunter [illegible] all that is necessary is to have Mr [illegible] the board or exhibit it to Brewer & [illegible] agents Chancery Lane and have them [illegible] patent as a Communication. Mr Johnson [illegible] write out the claims for the same. There [illegible] a Combination claim made [illegible] the Annunciator Block & also the method [illegible] the board. Your [illegible] patent with transfer strips and claims [illegible] in the same patent the new instrument [illegible]

All that will be necessary will be to have [illegible] of the new instrument taken to Brewer & [illegible]

I send herewith a copy of my [illegible] patent [illegible] difference between this patent and the instrument [illegible] should be patented.

Very truly
[illegible]

[illegible] 1[illegible]

[illegible]

[illegible]

[illegible] I
[illegible] I
you in commending [illegible]
[illegible]
I shall [illegible]
as I cannot [illegible]
[illegible]
What [illegible]
the Company [illegible]
about it. I shall [illegible]
out my [illegible]
is worth [illegible]
of invention I shall [illegible]
what I had previously [illegible]

Yours [illegible]

[illegible] I. N. C.

(C)

Menlo Park N.J. Oct 3 1877

My dear Johnson,

Yours of 21st left to hand.

Of course the transmitter business is now all settled so I have nothing to say on that. I am making you two tracings of the connections previous to our "cutting out the Gritting and speaking", and one after, in order to show you that if you do not like the arrangement, that you will find inside the coil two two wires which if connected together leave it in the state as it was at first. —— We have given Bergmann an order for the 200 telephones, 50 switchboards, and also 250 transmitters for 500. He is working like a beaver and I am pretty sure he will come out all right. We have just given him two models and he wants for them and the first time they were put they talked right out loud a pretty good criterion that we are ahead on telephones! —— In addition to the diagrams I am making a tracing of the new transmitter which I thought you might like to have, although I know you know all about it. They may not catch the mail but I will send it to-day anyhow

Yours muchly

T. A. E.

Oct 4 77

Mr. N. S. & Harlan Mfg. Co. N.Y.

Gentlemen.

Please ship the following to Mr. N. S. Wright

100 pr of	Telephones
280 " "	"
40 " "	Mics
28 Pendants	Keys & Tassels
28 Pendants	Switches & Mics
28 Pendants	Switches & mics
28 Side	switches

Respectfully yours
T. A. Edison

Edison Telephone Co.
Cables and Thimbles
Clevis and Wire

Oct 1

Ottergman Esq
N.Y.

Dear Sir,

The following Cable [illegible] regarding the Contract for making [illegible] Thousand (2000) Chemical Telephones [illegible] the London Telephone Company (Limited) explains itself, and is sufficient [illegible] for you to process, and [illegible] Ships them.

London Oct 1 [illegible]

"Edison Menlo Park N.J.
"Cable price 2000 Campbell [illegible]
"London

"Campbell [illegible] respectfully [illegible] London

"Company will contract 2000

"Letter Mailed. Letter Edison [illegible]
"points [illegible] regarding [illegible]
"[illegible] Hungarian [illegible] offer receipt of
"[illegible] water. Thousand [illegible]
"[illegible] Telephone Patent Edison
"[illegible] memory [illegible] reputation [illegible]
"[illegible] Patent [illegible] and [illegible]
[illegible] Edison

[illegible]
[illegible] Edison Zoos [illegible] Edison
[illegible]

Oct 6th '79

W. Donnell Esq
N.Y.

Dear Sir

When are the general telephone interferences coming off. I understand a postponement has been made until next January

Very truly
T. A. Edison

C. f. 14

Messrs Johnson Matthey & Co
London. Eng.d

Gentlemen,

Your favor of the 27th ult
was duly recd. As it is not
"private" I would like your
permission to show it to my
partner in the Central Office
[illegible] commercial
men (such as Drex &
Morgan) and of course having
a far better knowledge of
commercial affairs than I could
take to have, and where such
vital interests are involved I
do not care about assuming
the responsibility of acting
not fully consulting with the
[illegible]

Oct 10, 1911

The telephone notes mission in conjunction with the page were sent forth by yours of the 1st to Johnson. [illegible] Book - when it comes I will go [illegible]

Don't be troubled about me altering things [illegible] not practical. I would just as soon throw [illegible] which is not essential to make the [illegible] success. I want our Company there [illegible] Contract and Telegraph orders [illegible] the best [illegible] practical apparatus in other words a contract [illegible] of there is any other thing that will [illegible] chances of our getting it are 1000 to 1 in our [illegible]

Your letter of the 4th to Veitch reached tonight. [illegible] that with the [illegible] incomprehensible that [illegible] the [illegible] Johnson [illegible] out at the [illegible] the work [illegible] Mitchell. [illegible]

[illegible] I would wire to you to [illegible] of new telephone [illegible] house and the [illegible] with instructions [illegible] no consideration [illegible] they [illegible] that those instruments tonight [illegible] they were when first put up. [illegible] record of [illegible] time [illegible] and it will be a difficult thing [illegible] the cause of this sudden deterioration.

There is one thing I will mention [illegible] a check in a telephone put requires pressure [illegible] yet it that it will not be [illegible] put the check [illegible] that normal pressure on it [illegible] rapidly for at least 5 minutes until [illegible] polished groove was made then decreasing [illegible] to normal and used in practice and [illegible] allowing the battery on regular pressure and [illegible] 2 more minutes under the [illegible] three hours. This manipulation was [illegible] when we tested the telephone [illegible] At first we found all the checks [illegible] and put normal pressure on them and then [illegible] them. The conversation [illegible] work [illegible]

[illegible]

The [illegible] the chalk [illegible] not in the [illegible] [illegible] satisfactorily [illegible] discovered. The [illegible] [illegible] strong current between [illegible] on the chalk [illegible] [illegible] and this [illegible] moisture in the chalk by [illegible] it all [illegible] we do not now but take [illegible] around [illegible] (Another thing if a chalk [illegible] [illegible] and then but in the telephone it does not give [illegible] for the reason that when any [illegible] [illegible] and water evaporated the [illegible] [illegible] and that, another thing [illegible] [illegible] apparently the action of the water is to [illegible] [illegible] tell the consequence to the chalk [illegible] [illegible] comfort. The [illegible] the chalk [illegible] not be [illegible] the first [illegible] drawing a [illegible] across the [illegible] [illegible] cause it to be [illegible] at that place [illegible] [illegible] be [illegible].

John Ott wants [illegible] to get [illegible] on [illegible] repairing shop. I think [illegible] alone with [illegible] few tools [illegible] to do all the [illegible] [illegible] long time [illegible] in [illegible] will go for the [illegible] we gets here "37 [illegible]

Mrs. Perkins [illegible]

[illegible] with [illegible] proof [illegible] all be
[illegible] [illegible]
[illegible] which must [illegible] [illegible] by [illegible]
the [illegible].

[illegible] you have much about the negotiations [illegible]
[illegible] have a power of attorney [illegible] and [illegible]
Contracts and do things without [illegible] [illegible]
[illegible] do not get the information that [illegible]
[illegible] to be sent [illegible] signature [illegible]
[illegible] [illegible]

I will [illegible] that next week [illegible] shall [illegible]
[illegible] so instruments and perhaps [illegible] [illegible]
have come until [illegible] [illegible]
[illegible] [illegible] [illegible]

We have been to work continuously on [illegible]
G. Light for 40 hours with the exception of [illegible]
[illegible] and are now with track again [illegible]
[illegible] of continuous work. We are [illegible]
[illegible] G. [illegible] better than [illegible]
[illegible] [illegible] [illegible]
corrected [illegible] 41 [illegible] [illegible]
the expenditure of [illegible] power when this [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]

[illegible] to the [illegible] of natural Cair [illegible] where any doubt or [illegible] financially in favor of the inventor.

That chalk catastrophe has sent a little broken pain right in the pit of my stomach. All [illegible] those chalks last for 10 [illegible] before I get through or I'll eat a lot of them. [illegible]

Yours truly

J. B. Gordon

FOR THE LABORATORY OF
T. A. EDISON,
MENLO PARK, N. J.

Oct 10. 1879

Dickerman & Co
New York

Gentlemen.

I have just received a Cable from London of which the following is a copy.

Very truly
T. A. Edison

The Edison Telephone Company of London Limited
Mansion House Chambers
Victoria Embankment
London Oct 8 1879

Mr T. Edison
Sir

I have to acknowledge the receipt of your Telegram as follows - "Dickermann Company with "Contract 2000 complete Theillen dollars Cash Cents packed subject my instruction agree division per "hundred four weeks after receipt order and work "weekly thereafter under forfeiture 500 dollars [illegible] "receipt delivery invoices with my signature [illegible] "I shipped lot yesterday today [illegible]

Edison

to which the following reply was sent.

Contract 2000 [illegible] Cable

[illegible]

Oct 20 '77

V. F. Butterworth
My dear Butler,

Your of the 1st
is just at hand. I will think
the matter over — it all depends
on the — income or non-income
in Calif. If — should be paid
will quote the same terms.

Yours truly
J. R. Elder

Oct 20 19

L. A. Powell Esq
N.Y.C.

Dear Sir

I would like a copy of the last (the 5th?) English provisional co I have something to add.

Very truly
J. A. Edison

A. Powell Esq
N.Y.

Dear Sir

Can you write here some day this week or take half a day to look over my documents that I have and make up the case for telephone interference. I have a lot of stuff here to explain.

Very truly
J. A. Edison

[illegible] 19

Dear [illegible]

[illegible] from
[illegible] opinion on my Engineering [illegible]
of 12 pages. I have a book [illegible]
written by the author of the opinion. He
would [illegible] to have the book sent to
you with his report as a copy of the Pa[illegible]
[illegible] the [illegible]
[illegible] opinion [illegible]
that you are going to be. We are going
to have litigation over this strong [illegible]
against the [illegible] patents, but
this book has proven to me that [illegible]
[illegible] are very [illegible] [illegible]

Yours truly,

T. A. Edison

to the public. Cl[illegible] [illegible]
[illegible] shall [illegible] do [illegible] [illegible]
[illegible] Do you [illegible] may [illegible] [illegible]
telephone has caused an improvement, Will [illegible]
write [illegible] name of telephone of regular model.
That talk louder than any of the other
instruments and moreover [illegible] Bell will
continue to do so. With all the difficulties
we have found it only wonder that they
[illegible] at all.

Very truly
T. A. Edison

An idea.
Would not a table
point through the Bell Patent
be legal?
T.A.E.

(C)

[illegible] PARK, N.
U.S.A.
Oct 20

[illegible] of the [illegible] Ex
Cit[illegible] Hic[illegible] at hand. I am sorry
to have to disappoint you in regard to signing
the irrevocable power of Attorney, but I cannot
do it. Not that I am afraid that you will not
[illegible] honorably but because until
lately [illegible] always given irrevocable powers
of Att[illegible] and these have invariably proved
disastrous to me in the extreme; Harrington was
a good sort of a man was the last person
to whom I gave an irrevocable power of Attorney
[illegible] irrevocability of which he frequently threw in
my face and which was the cause of creating a
loss of 4 years of labor 20 hours per day. Mr
Cl[illegible] offered me a large sum of money for my
interest but that word "irrevocable" hitched it.
From that date I made a vow never to give
another irrevocable power of Attorney, a resolution
which I will not alter although at the present
it seems to my interest, There can not be a
difference of 20 days anyway. I will sig.
all the other powers for Carbon [illegible] and
take out telephone patent in all the
countries mentioned that is possible only claim
in these patents that which is vital to the
[illegible] ful work of the telephone but insuro

Oct 20th '77

L. W. Serrell Esq
Nly

Dear Sir

Your favor of the 10th enclosing copy of a communication from the Pat Office concerning my appln for patent on telephones (Bell's) has been rec'd.

I will that in the present state of the art and for simplifying the subject that the decision of the Patent Office is quite right but rather expensive to patentee.

Very Truly
T A Edison

Oct 20th '77

L. W. Serrell Esq
Nly

Dear Sir

I do not want the fee paid in yet on the 1/5 telephone I am going to take out foreign patents and don't want it published. This is in reply to your notice of Oct 15th.

Very Truly
T A Edison

Oct 29 '79

R. W. Van Allen Esq
Pittsburgh

Dear Sir

Your favor of the 18th regarding the phonograph and telephone received (Nos. 109 & 110) was duly received. I must ask for an further extension of time at least 30 days as I have all I can possibly do with the papers now in the other telephone interferences.

Please see what you can do towards a postponement and oblige me

Very truly
G. A. Adams

(c)

Oct 27, 1[illegible]

[illegible] of [illegible] patent
[illegible] for India, Denmark, Norway, Sweden
The [illegible] South Wales, Victoria, Queensland,
New Zealand, Portugal and South Australia.

Keep the new instrument with the improvement on the push button that stops the knock in the [illegible].

Send a full description of the whole instrument.

Claim. First. The method of adjusting the carbon transmitters by the screw in the diaphragms

2d The tertiary coil containing the chemical receiving instrument.

3d The combination of a transmitting instrument in a primary coil and circuit with battery which varies the resistance of an electric circuit by varying the intimacy of contact with the induction coil consisting of a primary, secondary & tertiary coil all [illegible] and connected substantially as set forth.

4th [illegible] of platinum to keep the opening in the

[illegible] to check

5th The use of a phosphate of [illegible] salt to moisten the check with.

6th The method of putting pressure on the opening by the rubber piece.

7th The device shown in new finish for regulating the opening and closing of [illegible] for destroying the check.

8 The worm & worm wheel

9th The general connections.

Have the papers prepared and one of them in duplicate sent me also have all the necessary papers [illegible] sent me at once.

The above claims are made in view of [illegible] has already been published. I believe nothing [illegible] has been published so as to defeat the claims in the countries where the patents are to be taken out.

Perhaps the platinum phosphate [illegible] New Jersey. New method of adjusting transmitter [illegible]

general conditions would [illegible] be [illegible] in England [illegible] for the subject matter of [illegible] [illegible] any many. The new method of [illegible] the transmitter and receiver [illegible] be [illegible].

Last week 8 of us on telephones [illegible] 36 hours and did not have our [illegible] off once. Same with Batch. Tested 36 [illegible] last night and every one [illegible] right [illegible] [illegible] no land [illegible] [illegible] the [illegible] Rem

Very truly J. A. Edison

Oct 27 79

My dear Mr Lowry

I will have two telephones put in order & tested first as soon as possible and send Francis to put them up - It may be several days before I can get them -

Very truly
T. A. Edison

Oct 27 79

My dear Ed J

Allow me to call your attention to "The Electrician" of Saturday Oct 11th page 242 an article entitled "Theory of the Microphone"

Very truly
T. A. E.

(c)

Oct 27 79

R M Walton Esq
Port Huron Mich

Dear Sir

Your favor of the 23d was duly received. I should like to comply with Pitts request but unfortunately my time is not my own I am obliged to meet him (now) from all parts of the country with whom I am in litigation and in addition there are a thousand and one things requiring my personal attention every moment.

Some one had better come to take Charley's remains to Port Huron I will see that permits are obtained from the health officer and do anything of that kind that may be necessary. The interment is due Nov 4th.

Yours truly, M. Ellis

©

Oct 31st '79

My dear Mr Lowrey

Referring to your letter of the 29th inst. my understanding of the Welch matter is right. We advanced some money on the Drivers. I recollect and I think $10 or $20 on a double-trouser which was made, tested and proven a failure. He refused to pay Mr Welch's bill for making this instrument and I was compelled to pay some $40 all of which came from a very close sale, which I was meeting at the time. The whole thing, I characterize as a contemptible fraud. I think the Wel. ought to protect me against this.

Very truly
T. A. Edison

Oct 31 '79

Dear Sir

Your favor of even date is just at hand. I am still of the opinion that it will be quite time enough when the light is brought out, then we can see if there are any arrangements and should there be any it will be time to make some arrangement.

Very truly
T. A. Edison

N. W. Forward Esq.
New York

Oct 31 '79

My dear Banker,

Here is a Cable I receive yesterday

London Oct 30

Edison — Absolutely vital you exercise power entrop Paris negotiation awaiting my letter.

Reiff

From all the information I can gather I have almost concluded that Mr Bailey has been engaged in and continues to be industriously engaged in filching the pockets of Edison & Co. at the expense of Edison & others

Very truly
T. A. Edison

Oct 31st [illegible]

My dear Sir,

Your kind favor of the 11th inst [illegible] duly received. Also the copy of Engineering [illegible] for which please accept thanks. I was much pleased with your article. It is quite correct. I send you herewith a copy of the paper [illegible] You will see in the last number [illegible] Magazine (for Nov) something [illegible] I gave to one of the Editors. It is [illegible] column headed "World's Work" [illegible] arrangements to try the experiment with [illegible] large scale.

Regarding the E.L. I expect within a week [illegible] to make an exhibit here on a large scale [illegible] to spare them I will send you a few [illegible] exhibition at the reading office [illegible] seen in the Scientific American [illegible] dynamo machine since that was [illegible] made an important improvement [illegible] in transferring 90 % of the energy [illegible] over a circuit of 10 ohms [illegible] 19 of total current [illegible]

Yours [illegible]

Conrad Cooke
London

Oct 31 79

Arnold White Esq
London Eng.

Dear Sir,

Your favor of the 17th is at hand. I have no objection to your having Messrs Charles & make the instruments. I am satisfied with the business out in England & shall be, if you proceed be careful to order a small lot because there are certain things about the instrument which the men have to be educated up to. I send a man next week with a lathe and everything necessary for you to make your own chucks. I think the next lot of [illegible] after the completion of the 100 can be made as low as $17.

Very truly
T. A. Edison

Nov 1st 79

L. M. Sengling
New York

Dear Sir

Please send me Electric Pen copies of these applications together with tracings at your earliest practicable moment. Also a copy of the last English Provisional.

Very truly
T. A. Edison

Nov 1st 79

My dear Gourand

Yours of the 29th all just at hand. Please pay Mr Munkelrick the £50 advanced to C. P. Edison, charge my account, and send me intelligence my Nephew sign and receive receiving this money? If so we take it up.

Very truly
T. A. Edison

Nov. [illegible]

2

including expenses and the funds
should be sent from here by Nov
9 in order to be in time

Yours truly
(Sig^d) L.W. Serrell

Thos Purkas Esqr
Paris

Dear Sir I have just received a letter
from Serrell of which the following
is a copy. Please Don't fail to
pay the annuities and acknowledge
receipt of this letter

Very truly
T.A. Edison

N.Y. Nov 5 [illegible]

T.A. Edison Esq
[illegible] Park

Dear Sir I have to advise you
[illegible] an annuity on your [illegible] there
[illegible] of Dec 19th 1877 No 131,654
(Telephone & Phonograph) & the Dec 19
[illegible] account of this annuity

Nov 10 '79

©

Friend Banker

Bailey will call on me tomorrow. I presume he arrived to day. Please don't do any business with him just yet but see what he has to say. We had better talk over the matter before you promise this or that.

Very truly
T A Ed

New York Nov 10 1879

Wm Sellers & Co
Gent

Please send soon as possible one set mach fuses, 10 mach fuse 1 1/16 bore straight also one Eight mach fuses 10 mach fuse 1 1/16 bore. straight The shaft is turned 1 1/16 inch Prompt attention to this order will oblige

Yr
T A Edison
Contract

324

©

Maj Frank McLaughlin
Cherokee Flat Calif

Nov 11, 1894

Dear Sir

Yours favor of Nov 3d was rec'd this morning. In regard to contracts I leave it to your judgment about the amount of gold to be returned to mine owners. If you can do better than 1/4 why go ahead. do do the best you can. I have Co[illegible] with me as well as Banker and Clothing and can get all the money required to work. Bear in mind we can [illegible] a mill in vicinity of Oroville or at Oroville work the undercurrent or black sand process which Dr Naid and I have, [illegible] which is absolutely perfect and can be kept a secret. I want to go into this mill and I will see you get your share and have charge of it along with Dr H & one or 2 more of the boys. What we want is contracts with corporation or absolute owners of the mines. I will see the undercurrent dirt for a few years for 1/4 (or less) of the gold. This is a consideration to them as it affords them facilities and increased profits and for this consideration we give the exclusive contract. Please give me all the facts about your mine at Cherokee. If

price, terms and character of the mine, it is impossible to put it to work you in the place of the S. P. C. I will come down to H.S. [illegible]

I think you and Miller stay around Cherokee with the idea of erecting the mill ready for the mill. There is lots of platinum for sale and no one is going to steal the platinum in Dixie Co or in Oregon. It will keep. As I can make money I would like to get the [illegible]

The process is entirely Electrical [illegible] phosphate dirt you last sent us, [illegible] 1000 and the thing is done.

I can start without conspicuousness [illegible] there on 10 acres salt marsh [illegible] all joked. The price which that Nevada salt Co got there and delivered in Oroville.

If you know that sample you sent from Yuba Co. I was going to work in a mill. a big dynamo machine up 99% of whole leaves nothing but gold and platinum and a few grains of quartz. and it for 25-p per ton. We are the boys to [illegible] for any kind of ores they bring to the mill. If we get ahead of other boys.

Yours truly

T. A. Edison

Nov 14 79

Dear Ward

Thanks for your favor & Telegram of yesterday. Please find answer ~~to the cable~~ enclosed.

I am working day and night on the C.L. Don't see how it is possible for me to go to N.Y. Would like to see Col Martin if you can bring him down or if he can come alone will be pleased to see him and show him around.

Yours truly
T. A. Edison

Nov 14

Cable

Reiff London ©

I will stick to my Contracts with the and Purchase of D. Make a dollar.

Edison

③

him to find it, they have got to expert now, that any bug I can make does not take them above 3 minutes to find.

We have tested the water chalks very severely by baking for long periods and drying in air but no test that we can make seems to hurt them. Any transmitter, any coil, any spring, any adjustment seems to be good now. It is the old story get the chalk condition just right and any thing will work — No more guessing!!! Bates and I tested 37 in 1 hour and 20 minutes having to set all transmitters to what do you think of that?

Yours
L A Edison
per Batchelor

Continue as we believe almost instantaneously — Can will fire them the Instant you have one shell —

Are chalks should they ever play out very in 5, 6, or 12 months with 3 cells I. transmitter by putting Bunsen to remoisten —

We shall ship you a long water chalk with every shipment of telephones as you may have plenty of time — Dynamos first hundred and one hundred shipment are old style, the one next for and the second hundred will be Motors and Bells —

We have had an exchange of lines with all your wires going for the last week with Western Bells 90 water chalks and with the exchange I have the impedance by going round I am instructed and discovering the then setting

P.

Oct 12 7 y.

My dear Johnson,

Note chalks are out you will shipment of Thursday out from here on Bells and ones on shipment Monday out from here on 12 will be both shipment over other send me hundred extra water chalks Throw away all chalks and put Gotham's effective — Get Tommy Mills water chalks and a hand full of pure chalk water, order can be furnished of any manufacturing chemist office, writing, you will find the instrument have the 3 cell telephone, but set aside for tomorrow time, then try it, I feel it will be all, and you will find it [illegible]

Nov 15th 1879

S. Benjamin & Co

New York

Gentlemen,

I have just received the enclosed order (page 3) for goods. I should like you to quote me and ask you would you quote me the lowest possible price they can be delivered at. If satisfactory I will then add 10% to same as our commission. Notify me immediately which of them can be got at once, so that we shall not have to wait an unnecessary length of time for completion of order.

In regard to Porcelain Brown Insulators if they cannot be got of porcelain what get price for 500 green glass.

In regard to wire cleats

2

offices, they [redacted] as
used by W.U. Tel. Co.
Enclosed (Sheet 4) will be found
sketch and specification of
house which mentioned
Also Enclosed (Sheet 5) will be
found specification of [redacted]
Quotes
By giving this your immediate personal attention you will oblige

Yours very
Thos. A. Edison.
per N.B.

3 Nov 14th 1879

Order. —

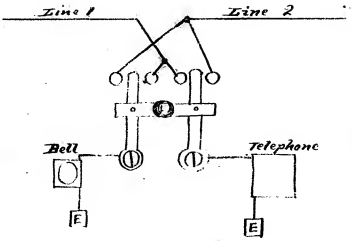
500 Cells Gravity battery (Watson)
1000 Rubber Hook Insulators
1000 Pony insulators — Screw pattern — but made of porcelain
1000 Brackets for above
1000 Top pins for above
260 lbs of Phillips Patent finished paraffined office wire (as per sample)
1000 Wooden office wire clerts for 2 wires
1000 clerts for 4 wires
50 Two wire reverse switches as per sketch & specifications
20 two drop Annunciators as per specifications
20 two " "
10 three " "
10 four " "
10 Six " "

Specifications for Annunciators

These annunciators are wanted for Private lines, where a party has more than one wire in, and only one telephone: to indicate which wire called, and whether a call has been made in absence of office occupant—

It should be for this purpose, a cheap signal bell and the Standard "drop"; put up as directed in cheap but neat boxes.

Sketch and Specification of Reverse Switch



For use where a man has two wires, and but one telephone; He rings on one wire on a bell, and the other on a telephone all the time. [illegible] must be made good, but [illegible].

Aug. 27 1817

Messrs Brehmer &c
Philadelphia Pa

Gentlemen,

We send you the two small shaving razors (left here by Mr Painter), & might by return. We have filed off the point of their which clamp the scraping iron. This is absolutely necessary — the general form of these razors must be maintained — blade and is like a Sharp's needle point. The point of the needle must be left sharp but smoothed sufficiently so as not to scratch — Your handle is too thick and has the blade a point. The first part of

3

difference between yours and what they ought to be

I would suggest that where the spring is filed so as to weaken it, it should be done with a smooth file and afterwards draw filed a little

Apart from these points I find your instrument well made and of good material

Yours respectfully yours
Thos. A. Edison
per Batchelor

2

back of spring are saturated with Shellac and consequently are hard and solid and have no 'give' — A good paste for fastening them to spring and diaphragm is made of Burgundy and Resin half and half, it melts easy and sticks well — Use as small an amount as possible — The Japan should be taken off the [illegible] neat at the point where it [illegible] the adjusting screw [illegible] in the pieces of the [illegible] where it strikes the [illegible] the casting [illegible] also to put [illegible]

I would use [illegible] pads so that [illegible]

(c)

November 13th. 9

Monsieur le Comte Foucher de Careil.
President Du Conseil
Compagnie Générale de Téléphone.
Paris

Monsieur

I have received a letter signed by the members of the Société du Téléphone Edison advising me that the provisional council of the new company had voted to leave one member of the council subject to my nomination. I beg of you Mr President to convey to the council my thanks for this mark of consideration on their part. Desiring to make this nomination so as to subserve the general interests, I have [illegible] myself to nominate to you both

(2)

Messrs Bailey and Puskas, leaving the council to choose, that one of them that it judges most expedient. I have therefore cabled you today in accordance with the terms of the letter of the Société Edison "Je nomme Bailey et Puskas, laissant au conseil choisir entre les deux — Edison" This letter covers I now beg leave to confirm.

Renewing Mr President my thanks for your consideration, and begging you to convey to the gentlemen of the council my

(3)

assurance of the warmest interest in the enterprise in which we are associated and my offer of any service they may at any time desire from me,

I am dear sir, with highest respect

Your obd't servant,

Thomas A Edison.

Nov. 18th 1879

S. Bergman & Co
New York.

Gentlemen, I have just telegraphed you to fill the order send what you can immediately.
I think you had better send one hundred Watson cells from Tillotson and then make them yourself if you can do it cheaper.
The price you gave Edison for reverse switches was $2 – instead of $2.25 which you gave me for this.
Edison thinks it best to use relay and bell with annunciators, write me

2

about this – Add 10% to the prices you gave us and bill direct to the Edison Telephone Co 11 Queen Victoria Street London – Get if possible better prices on Army installators and brackets, as you mentioned to me it was possible to do so.
Send immediately whatever you can

Very respectfully yr.
Chas Batchelor
for Mr. A. Edison

Tillotson delivered on ship for Edison 100 Watson at 750 he ought to let you have them at 7/16.
C.B.

Ok Nov 19th 1879

Nov 18 79

Enclosed

Mr White Esq
Mr Bell Co

Dear Sir

I enclose a copy of a letter which Mr J. F. Bailey wrote to me from N Y a few days ago for your information. It is of a confidential character & makes a special request that it be treated as such.

Very truly
J. H. Ellis

(c)

Confidential

Copy

New York Nov 1 79

My dear Sir

Referring to our several conversations & agreements of the last few days, has the compliment to state I hereby engage not to place any form of Carbon Telephone or Microphone in Great Britain

Very truly
(Signed) J. F. Bailey

J. H. Ellis Esq
New York City

(c)

Nov. 6th 1877

Messrs. Siemens & Halske
Berlin

Gentlemen. I see by a communication from the German Patent Office that you have filed a claim to my patent application on dynamo machines on the ground that they are the same as your accounts of which have been published. If you will compare the matter more closely you will find there are material differences between these which I seek to patent. About 6 months ago I cabled Mr. Simon of London urging him to patent the Hofr. Von Alteneck. I see this has been done. Application has been made in the U.S. Patent Office upon which the patent office has declared several interferences among which I am included. I have altered my specifications so as not to clash with the patent but was see [illegible] the patent [illegible]

[illegible] so [illegible], taken it upon yourself to oppose the issuance of my German patent. I shall take measures to oppose in a legitimate manner the issuance of the Hofner Va Altenach pat. in this country.

Very truly

Thomas A. Blum

Nov 14 [illegible]

L. W. Serrell Esq
N.Y.

Dear Sir

In re. German patent [illegible]
denying the statement of Wm. [illegible]
that he that has devised [illegible]
[illegible] are the same [illegible]
devices to which they [illegible]
a close inspection will show [illegible]
there is a material difference [illegible]
that they are properly [illegible]
the head of one patent as they are
parts of one machine for [illegible]
Electricity

Very truly
T. A. Edison

Nov 21 79

Mesrs Park & Tilford
N.Y.

Gentlemen Please send by Express

R.R.

10 lbs unground Coffee
5 " White Grapes
4 doz Oranges
4 " Lemons
1 doz pkgs Oatmeal
1 " " Wheat
½ " Cans Mushrooms
½ " " Strawberries
½ " " White Cherries
½ " " Peaches
½ " " Small peas
½ " " Chicken
5 lbs Pecans

Nov 20th 1879

Brehmer Bros
Philadelphia

Gentlemen,

Have received a copy of your letter to the Phonograph Co — I think it would be well to send me two more of the small phonographs and I will see if I can work them without alteration — If not, the company will then order you to make the alterations at their expense — I should like to know what it will cost to make the necessary alterations as mentioned by me in case we would need it

By sending the above you will greatly oblige

Yours very respectfully
Thos A Edison
per Batchelor

H. H. Painter Esq
New York

Dear Sir

I have ordered Messrs Brehmer Bros to send me two more of the small phonos — I will see if it is practical to work them without the alteration think we can possibly

Yours
T A Edison
per B.

C H Painter
5 Cox Hotel
New York

Nov 25 79

Bernard Quaritch Esq
London

Dear Sir.

Referring to your favor of Oct 30th please send me "Annales de Chemie et de Physique complete 1789 to 1875 inclusive 206 vols & 8 vols index - mostly bound" at price named - £192.

Very truly
T. A. Edison.

Nov 26 79

My dear Prescott

Referring to your telegram of Nov 20th, I do not recall to mind just now anything exactly similar to the solution. Regarding the practicability of this device or operation it would require as much experimenting to make it work as it would to get up an entirely different thing and make it work.

Very truly
T. A. Edison

Nov 1 [illegible]

T. T. Vernell Esq
NY

Dear Sir Regarding Electric light and referred to in your of the 22nd
Fig 87 may be omitted.
Fig 88 shows an arrangement by which continuous and alternating currents may be obtained from an ordinary Gramme machine, the commutators are closed or arranged with the wire on the field magnet so that the current set up in the [illegible] will energize the field magnet at a point [illegible] angles to the commutator springs [illegible] and the bottom of the ring. The coil [illegible] wire on the ring is broken in two places [illegible] four ends of the wire taken to disks [illegible] shaft upon which springs rub, these springs have wires connected to them and if the wires be closed continuous currents will be taken off by Vic and energize the field magnet while alternating current will flow through the wires [illegible] and the carbon points connected with them [illegible] Fig 90. The rotating cylinder serves to collect the [illegible] which results from their rotation [illegible] a magnet [illegible] is in connection with the magnet [illegible]

V. t [illegible]

Menlo Park N.J. Oct 5th 1

My dear Johnson,

Edison has just told me about your cable as to chalks. Your troubles are now ended I think and you can use telephone — Your trouble with cable will not hurt the chalks providing you let them stand thirty six hours before using. Do not try to get the point by great pressure but by light pressure and long turning — We can hardly comprehend what you mean by "polarization" in the Plates cells — Perhaps you will write again — it may be due to the mercury — There have been 1000 cells of this battery in use in Chicago now a year & give no trouble — Of course the advantage of this battery for our purpose is that it takes up little room — Put 4 cells Nelson and 250 ohms some of the annunciators drops are a little weak when giving closing but signal — perhaps you can by some means strengthen your signal by battery at central station or in some manner. Yours

Geo L. Bates

Geo Bates Jr.

2

concession) that they must constitute. — Of course I could not be responsible as I had already told by telephone here, and in Paris I could not be responsible for my agents. Sorry to hear you have been sick, and hope you are better by this time — Note you are not going to "kick the bucket" Odium facetiously remarks that if your men are going to die off so, it would be better to have the large boxes made a little larger, so that you can send back the corpses in them. All previous to our arriving inspectors we will see if they will fit the boxes, that being one of the conditions of their capability.

Yours
Chas Batchelor
for T.A.E.

©

Dec. 1st 79

My dear Johnson

We will look after your shipments and try and get a shorter time. — In re the little squib you sent us from the paper the Western Union saw they had no show on the Gray and had to depend on ours — the W.U. get 20% of the gross receipts, and Bell company has to furnish everything. They of course get sometimes more and sometimes less — As for the Grover business there was reason for that, and we got the lion's share — We had to consolidate as the Minister of the Interior refused to have three sets of wires on the poles after the first year and notified them all to all of which he had given a

©

C. Goddard, Esq.
New York

Dec. 29, 17[illegible]

Dear Sir,

Your favor of the 27th inst. duly received. I am preparing full statistics as to cost and I can not now give time to reporting the statements of our gas friends but briefly stated matter that no one in New York or in America can make a cent with 1000 feet of gas in the holder for 50¢ but there is no difficulty in the way of it. It is delivered that it does not cost 10¢ per 1000 feet hrs. if I do not charge to it expense and interest, but only for a cent per hour that I give a jet equal to 5 feet of gas burned in the regular standard argand. That if I burn the burner all night it will supply light, all night or if there is not enough lights to absorb the burner but one then the Corliss cut-off works and there is just so much less coal burned. If you go into the delivery of gas then we have for the plant or interest & depreciation to supply gas—the leakage to supply gas and a chance to use our same plant to sell the day for selling power which is more than sufficient in New York to pay interest on plant and make the light practically for nothing. There are many other [illegible] that stand at the present [illegible]

Yours Truly, [illegible]

Mesa Park 1-7-79

~~Intermountain~~ Herald.

Sirs

Please renew subscription same as last year and send me bill. I will send check for same

Strike "Ironmonger" from list and all the rest

Very truly
M. McEwen
Cannon

(c)

Jany 11th 80

Executors of the Estate
of Dr J. P. White
Phila Pa

Gentlemen

On Tuesday next
January 15th a meeting
of the Edison Telephone
Company of Europe
will be held at the office
of R. L. Cutting Jr & Co
19 William St N.Y.
If you have any name to
present to fill the vacancy
caused by the death of
Dr White please write or
Telegraph me to the above
address [illegible] or before
the date mentioned

[illegible] Edison

539

(c)

Jan 14th 80

E. H. Johnson, Esq.
London —

My dear Johnson —

You are mistaken about the delay of switchboards. They have all left Menlo Park within 3 days from arrival from Germany accepting two which we left back to test inspectors with — I cannot get men in New York would anything am compelled to teach them here — I send two on Saturday with "Times" clockworks — these are not clockworks but "Pen" engines; I could not make clockworks go they were too heavy.

Jan 14th 80

Samuel N. Sewell Esq
New York.

Dear Sir,

I should like to have a copy of the preliminary statement of Blake, Channcey, Wilson, and others in second batch of enlargements — also printed copy of Preliminary Statement in the A. B. & C. telephone contest — Have the goodness to address the to Chas Batchelor Esq Jr. Edison Menlo Park

Truly yours
Thos A. Edison

Nov 13.

5

[illegible] telephones to work by [illegible] of Chalk. —
[illegible] also attend to the [illegible] requests relating to Instruments etc. —
[illegible] first water-chalks [illegible] made are as bad [illegible] we have wet them [illegible] this evidently shows the truth remark that [illegible] chalk is a good chalk [illegible] "good for all time" if [illegible] wet.

Yours very truly
Thos A Edison
per Batchelor

A. Johnson Esq
11 Queen Victoria Street
London

4

being applied, or if set in motion by abnormal means, its stoppage would cause pressure. — No microphone such was made, that did not give a greater or lesser intimacy of contact by pressure —

Is a string telephone a telegraph? — Is the spun of a vessel a telegraph? — Is telegraphic communication for the man to holler 'across ten-acre-lot to another man? If so, then the Post Office has got you. —

Batchelor is having made the four diaphragm instrument — We shall also send you one of the paper speaking telephones made by Murray. We are also making you one

(c)

Jany 14

Clarence Cary Esq

Dear Sir

When the release was made it was understood that I should be taken care of when everything was settled up. As you mention nothing on this subject I should like to see some of the promises fulfilled. The Western never paid me one cent for the Quadruplex.

Yours

T A Edison

(C)

Jany 15—

Mendelson Bros
New York
Gentlemen

Your favor of the 29th ult. was duly recd. All I can say in reply, is that I shall treat with the first one who obtains the Government Concessions in Japan.

Very truly
O. T. A. Ellison
Esq

Jany 17

L. W. Serrell Esq.
NY

Dear Sir Please send immediately to Washington and get certified copies of all my telephonic applications filed during the year 1877. What I particularly desire is that I shall have the Patent office certification as to the date of their filing. I want them for use in England

Please acknowledge receipt and say when these may be expected

Very truly
T. A. Edison

570

(c)

Jany 19 81

Messrs Pratt & Gilford

Gentlemen

Please send the following goods at your earliest convenience via Penna R.R.

Very truly

T. A. Edison

per Griffin

(C)

1 Gal Sherry wine
1 " Port "
10 lbs Oolong tea
5 " Coffee 1/2 Moca 1/2 Java
2 doz Oranges
1 Box Lemons
5 lbs White grapes
1 doz Sardines
1 " Cans Salmon
1 " " French beans
5 lbs ~~[illegible]~~ Crackers
1 doz Cans tomatoes
1 " " Chicken
1 box Milk Crackers
1 " Cooking raisens
1 doz 1/2 lb pkgs Borax
10 lbs Eng Walnuts
10 " Almonds
10 " Pecans
1/2 doz large pkgs Chocolate

2

What shall we do? Have Husbands any money to his credit in N.Y.?

Very truly
T. A. Edison

(C)

NM

Dear Sir

I have just rec'd telegram from Mr Husbands which being translated reads as follows:

Valparaiso 24th '80

Edison NY

Send switchboard for 50 subscribers
Send 100 instruments with pattern complete.
Machines working splendidly
prospects extremely favorable
will do good business
Payment secured and more deposit made on account.
Have written or will write first steamer
full particulars by mail"

Husbands

605

Jan. 29

McKesson & Robbins
Gentlemen
Please
find notes alcohol and ether, cars
sent by Express this day
Yours &c
T. A. Edison
per Mott

No 5

S Bergmann

Dear Sir

We have shipped no telephones since the bill which I sent you when Johnson left — The transmitters which you are sending us now are very unsatisfactory. we have more trouble with them than with the previous ones so far as the diaphragm is concerned as they butter badly. we had no trouble with the Carbon Button or glasses until now we have to renew glasses & Buttons in at least 50%. you will please send us 25 diaphragms at once and we will send the other back — How about our transmitters we must have them immediately — We shall send #5 of your phones to Chile and we then number these which come the same as those sent make the order as follows #6

Yours truly

William Cornish

[illegible]

My dear Mr Young

Your favor of the 27th was
duly [illegible] in [illegible] of the O'Reilly
[illegible] I [illegible]
[illegible] McGuire [illegible] examined
[illegible] title of patent and [illegible]
[illegible] that [illegible] all right.
[illegible] their we must to buy any
[illegible] I have no doubt whatever
[illegible] I [illegible] would bring
[illegible] multiple [illegible]
[illegible] and I was as sure of it that
I would caught to claim it.
[illegible] O'Reilly giving
[illegible] & Sheets fools —
[illegible] that the patent is absolute
[illegible] will be [illegible] indubitable
[illegible] as when he read the reference
You know the multiple [illegible]
[illegible] not claimed but I don't
[illegible] will see the point. We

could undoubtedly purchase the
whole for a small sum but rest
you. You I could do so, I am sure.
You will think so when I tell
you how he got the ~~[illegible]~~ for $1.00
Yours truly
C. [illegible]

Feby 11

R B Higbee Esq
Silver City N M

Dear Sir
Your favor of the 29th ult has just been rec'd. The process you refer to is not a general one and is at present a trade secret. I should like at some future time to experiment with some of the material you refer to provided however there is an unlimited quantity to work in case I could make it a success.

Very truly
T A Edison

(C)

Feby 12

W. D. Lewis Esq.
Boston

Dear Sir

Your favor of the 10th is just at hand. The Patent application referred to has been in the office at Washington for some time. They are a year & half behind there you can go ahead and sell out have on the bottle "Pat applied for" This is Mr Edisons advice

Dont fail to send me the first 2 doz bottles – I gave some to Mr Rolston Prest Farmers Loan & trust Co N.Y. who says it simply immense. I think you could get a card from him

Yr truly
S. L. Gill

Feby 17 80

James D Warner Esq
NY

Dear Sir You kind favor of the 11th was duly recd. I have said that I should like very much to go to California in the Spring but it is very indefinite when I will go and it possible I may not go. Therefore I could not just now give you an answer to the business part of your letter. Should my business require it I will consider the matter referred to.

Very truly
T A Edison
C.

Feby 18th 80

Eli T Birch Esq
Weatherby Co
Dear Sir

In reply to yours of the 6th. The process you refer to is only applicable to auriferous sands and is intended to be used in Butte Co Cala - There can be no general process devised for working ores - I shall probably engage largely in experimenting on ores as soon as I can find time but I do not want to try to devise a process for one class of ore unless there can be found inexhaustible quantities of it.

Yours

(C)

Feby 25th

Col Geo. E. Gouraud
London

Dear Sir. Referring to Australian telephone matters. Not having heard from you I have closed with parties, who are now on the ground fighting the Bell people. This action was unavoidable as something had to be done at once, and the parties being a No 1 I did not feel like letting the opportunity slip.

Very truly
T. A. Edison

Feb 27

A J Horraikow
Dear Sir

I do not understand in regard to your charging $16.00 for one volume of Webs Dictionary — when you only charge other parties $29.50 for four volumes please explain as there must be some mistake the volume was received C.O.D. on receipt of this letter I will send check

Very truly

T R Edson
Carmen

C

March 1st

W. M. Lewis Esq
Phila Pa

Dear Sir
Your favor of the 25th was duly recd - I am still in the dark regarding telephone interests in France not having heard a word from Mr Barker since he arrived there. Mr Harjes (of Drexel Harjes & Co.) has my power of Attorney for attention since his departure in signing contracts - Any information which I may receive will be promptly forwarded to you

Very truly
T. A. Edison

Mch 22

Bernard Quaritch Esq
London

Dear Sir

Referring to your favor of the 13th ult, please send me The Brit Assoc report for 1879

Referring to yours of the 18th of Dec What have you got of the Quarterly Journal of Science?

Very truly
G. F. Chilson

Mch 7d

H. S. Hawes Esq
Holyoke Mass

Dr. Sir

Referring to yours of the 4th Can you ascertain for what the capital stock of the Gas Co is? No of 1000 feet Gas sold yearly - price per 1000 to small & large consumers. No of men employed in Gas works. Ground occupied - also finally if good gas is furnished.

Very truly
T. A. Edison
Cy

(C)

Mar 3

Robt J Cutting Jr
Dear Sir

Your telegram received. The neglect is not on our part - the laws of those countries require that some show of working the patent (or) working a single telephone must be carried out within a certain period. Parkas & Bailey have been repeatedly notified to do this by Bennett & Better telegraph Bailey that Bailey and Parkas were repeatedly notified to comply with the requirements of working the patent in such countries

Very truly
T A Edison
Cameron

Mch. 6th

Dear Sir

Your kind favor of 5th is just at hand. I am sorry I cannot now avail myself of your kind offer. Mr Hayes of the firm of Dwyer Hayes & Co Paris holds my power of Atty to act for me in matters Telephonic. And as regards Austria, Belgium and other continental countries I am merely a stockholder in the Company and have no power to act individually. When Mr Bowler returns from Europe I will talk the matter over with him and if possible will gladly have you act in our interest.

Very truly
G. A. Crane

Hon Geo Walker
Mass

(C)

Gourand London

I think it best to have things go on smoothly and close up matters with Bouvier its terms are certainly liberal and it will be for your interest I am sure

Edison

Mch 15

My dear Ward

Yours of the 10th was duly rec'd. I will be pleased to see you and Mr Hamilton any day you may find it convenient to come except Wednesday Mch 17 as I expect to be away on that day.

Will you kindly forward the enclosed cable to Gourand when you can do so without inconvenience

Very truly
T A Edison

754

Mar 19

C Godfard Beer
Dear Sir
Enclosed
please find papers left with
me some time since which
I have looked over. I would
refer you to the encyclopedia
Britannica Vol X page 97
which gives some information
on the subject as follows:
The heat expended in the decom
position of water is much
greater than can in practice
be given out by the resulting
gases. Hunter's mechanical
arrangement would call forth too
many questions of practicability
and are mentioned only as
suggestions not stating that
certain results had occurred
even in experiment but

any such and such will take
place or occur. I cannot
at present give this matter
much time as I am very
busily engaged on the
Electric Light and cannot
spare time to study the
matter up

Very truly
T A Edison
Carman

Mch 24

L. H. Serrell Esq
New York

Dear Sir

Referring to your favor of the 17th regarding the 6th annuity on French & Italian pats for Duplex & Quadruplex telegraphs, please notify Mr. Prescott if he wants to pay them all right. I do not.

Very truly
T. A. Edison

(e)

March 24

Geo Herrin Esq
N.Y.

Dear Sir:

Referring to your favor of the 19th regarding the Kinney Case, please write what you want me to testify to and I will see if I can do so, then on the Cells I think you can get a settlement.

Very truly
T. A. Edison
per G.

March 26th

Robt L Cutting Jr
New York

Dear Sir
As Major McLaughlin starts for California on or about April fifth it may be well to arrange regarding his salary and that of Geo Carman his assistant. I had a conversation with the Major and we have settled on five hundred dollars per month as his salary - half from the Ore Milling and half from the Miocene Co. Carmans salary twenty dollars ~~per~~ week divided in the same manner as the Major.
The Major will require two thousand dollars to pay the expenses of

himself and Carman, that which remains to be placed in the Bank at Oroville and accounted for to the respective companies by Major McLaughlin
Please arrange.

Yours truly

Thos A Edison

Mar 29

Dr A. E. Foote
Phila

Dear Sir
Referring to your favor of the 23d what Philosophical Society trans do you refer to:

Please send No 1780 No 1781 1787 1788 1179 + 1302

Very truly
T. A. Edison
9

(C)

March 31

My dear Dr Freeman You will remember you promised me E. L. people that we should have the exclusive right to the Page patent for the E. L. and that you would take care that no one else had it. Would you be so kind as to put this in writing at an early day & greatly oblige

Very truly
T. A. Edison
E.

(C)

Phila Apl 1st

C. R. Klein Esq
Chapella Cala

Dear Sir Your favor of the 16th [illegible] recd. [illegible] Cass during the 3 past 3 months. While in Cala his time was taken up so that he could not visit Chapella which if I understand rightly is not very accessible and then he found platinum in considerable quantities in Butte Co near Oroville Cala to which place he returns next Monday, Apl 5th, in my interest. I shall leave the whole matter to him about investigating your mines. You might open a correspondence with him at the address above.

Very truly, T A Edison

Sept 29

Col Geo E Gouraud
London

My dear Col.

Referring to your
of the 20th ult relative to
Colonial & Foreign Telepho-
interests, you were to pay
for the patents and expenses
of negotiating and I was to give
you a power of attorney to negotiate
and a contract showing interests
but no assignment of title.

Very truly
T A Edison
g

Apl 2d

Col Geo E Gouraud
London Eng

My dear Gouraud

Your favor of the 20th ult relative to Australian patents is duly received. I have made your interests 24/100 of 1 per cent under £5.0.0 for future profits, royalties and credits have to divide with my own men here.

Very truly
T. A. Edison

April 6th

Bonnet Iron Works - 149 to 163 William St. Newark.
Henry Frantz Esq.

Dear Sir!

Please find enclosed tracing to guide you in building the frame for electric car and Iron outfit for Passenger Car.

At Jersey City Wheel Foundry and Machine Works. Chas J Davis Sort gave prices on Wheels, wished not pattern, just to suit our purpose, by stopping off the spoke-brackets on Webplate, also for all Work at as low rates as other parties.

It is expected, that Your charges will be equally reasonable and the work done by You to best satisfaction as You propose by daywork.

Pedestals, babbitted boxes and springs, all complete is wanted with least delay

Yours truly

T. A. Edison.
per Julius F. Hornig.

April 7

Lycurgus B Moore
Dear Sir

The last test that you made may be erroneous as far as the resistance of the wire used is concerned. I found on examining the coils that a wire had broken making the stirrer 6 ohms instead of three ohms each being the case. We ~~then~~ think it would be best to rely on the first two tests as a double test gives so much greater certainty

Very truly
F. R. Upton
Carman

April 7

Lycurgus B Moore
Dear Sir
The last
test that you made may
be erroneous as far as the
resistance of the wire used is
concerned. I found on exam
ining the coils that a wire
had broken making the other
6 ohms instead of three ohms
each being the case. Mr Dixon
thinks it would be best to
rely on the first two tests as
a double test gives so much
greater certainty

Very truly
F. R. Upton
Carman

April 10

C. H. Brown & Co

Gents

I find there is a defect in our engine. The motion is uneven. This might not be detected in any ordinary machinery but it does very [illegible] on an electric light and it also very troublesome in measuring power with such a delicate dynamometer as we use.

When the crank goes down the motion is faster and slower when it goes up owing to the weight of the crank and connecting rod it has to lift. You may remember I noticed it on an extraordinary case the new engine built for Eighty horse power. It is subjected to some tests on Friday to ascertain Power.

We must endeavour to remedy and

I would like your suggestions as to how best to do it.
The engine is almost daily examined by engineers experts of steam engineering Reference to and indicated by different parties. I trust therefore you will feel interested enough to give the matter your prompt attention. Possibly you may have suggestions for counter weights to run on rim of the flywheel.
Awaiting your early attention
I am. Yours Truly
T. A. Edison
per Mott

Please answer
to T. Mussi

Apr 15

Miss Seymour & Whitlock
Hotel

We were
in great need of the prints
of the dynamos which you
are getting ready. For we
are very badly delayed in
not having. please give this
[illegible] Telegram
Telegraphed your [illegible] to myself
[illegible]

Very truly
Th Edison

April 16

A. M. Sutherland Esq.
New York

Dear Sir
Your favor of yesterday date is just at hand. The Wandering Patent both on division and incandescence is neither new or original. However I have nothing to do with the matter. The proper party for you to address is the Edison E.L.Co 3 Broad st New York

Yours truly
T. A. Edison

April 19th

The Pioneer Iron Works
Henry Franks Esqrs.

Dear Sir!

At Jersey City Car Wheel Works the Wheels are in the pit yet and with best speed will not reach You before thursday and then their work in finishing them will cause more delay. You would much oblige us sending the iron frame for motor first, so that we may commence fitting up without Wheels and axles. We can block up and place the axles in place afterwards. We would like to commence putting together by end of this week. For the Buffers please send us 3 Spiral Springs and make no further provisions as we commence at once with that part here ourselves.

Please send 4 more kegs of Spikes, same as before and oblige

Yours truly,

Apr 20

Messrs Park & Tilford
~~Gents~~

Please
send immediately
Six cans Peaches
" " Pears
" " Quinces
" Jars Strawberries
" " White Cherries
" " Red "
" " Raspberries
Eight pound white Grapes
Eight dozen Oranges
Two smoked Tongues
Eleven pound Soft Almonds

Very truly
T A Edison
Commn

Apr 20

Frank Cooper

Dear Sir

$210 per acre is the best I can do I will take it at that price please make our deed to Thomas A Edison and send it with abstract of title and we will close the matter at once

Very truly

Wm Carman

Apl 20

L. W. Serrell Esq
NY

Dear Sir

Referring to your
Notice of Apl 8 regarding
Phonograph case 174 please
have the patent taken out

Very truly
T A Edison
9

April 20th

To Pioneer Iron Works.
Henry Franke Treas.

Dear Sir!

Please find enclosed tracing of Motor-Platform - conforming with Platform of Passenger Car in width and material. The Sleepers being on hand, the suitable wood to carry them will be attached by us to the platforms, as soon as the castings are received from You.

Yours truly

Julius S. Herring.

Menlo Park April 20, 1880.

The Editor of the American Machinist:
Dear Sir:

The report upon the efficiency of my dynamo electric machine has been carefully reviewed by myself and assistants.

I beg leave to call your attention to typographical and other errors.

"It was said to have two Daniell's cells connected and the magnets acting." Better say — the electromotive force on the field magnets was equal to that from two Daniell's cells; making the magnet consume in the wire alone instead only 250 ft-lbs.

More than this, the test

was a preliminary one, and you were requested at the time not to consider it as of any use for calculation, since the machine which was supplying the field magnets with current introduced an uncertain factor. You state that the power required under the above conditions was, as indicated by card A, 9.57 H.P. And that without stopping the machine, the field being thrown off, the power required, as indicated on card B, was 4.15 H.P. This showed the horse power which was required to run the generator was 5.42 H.P. Since several other young men at my laboratory have turned the dynamo by hand at a rate of 1000 revolutions or more in a minute. From this statement makes it appear that the power of one man has

generally been rated too low.

You state that the horse power, ~~given~~ as per indicator, differs between running free and connected 151 H.P.

Since a man can obtain nearly the same speed ~~on~~ with the magnets on ~~or off there can be~~ an enormous [illegible] exists between that and 151 H.P.

You speak of "the difference ~~of~~ between the [illegible] lines running free and connected", you do not say ~~how~~ connected, whether it the field magnet or induction bobbin; even to an expert, would be ~~to~~ totally blind.

The coil was 1.74 not 174.

Ohms

You say the ~~tank~~ tank should have been made of wood, instead of iron, to prevent conduction of the heat to the [illegible] sides of the ~~tank~~ tank. The very enormous

of calorimeter experiments that the ~~tub~~ tank should be one of metals that conduct well the heat, to the end that the temperature of the ~~tub~~ tank should be the same as that of the water, so that the amount of heat absorbed by it may readily be calculated.

The weight of wooden frame was 6.5 not 65 lbs. in Ex. 1.

You assume the pressure of the cylinder as the boiler pressure ~~and~~ gauges are obviously incorrect since they sometimes differ 10 lb. in their readings.

In first experiment the specific heat of copper is 0.094 not 0.049 as printed.

If you refer the units of heat developed in the calorimeter back to the cylinder and base your calculations on the gauge pressure, whereas you should have taken

the initial steam pressure in cylinder. Your indicator cards plainly show, that any results ~~ft~~ founded ~~upon~~ upon theory will not be even approximately correct. Heat is energy and is directly shown by the rise in temperature of the water in the calorimeter. Eq. 1 gives this rise in temperature represented 1,841-48 thermal units and [illegible] X [illegible] = 1,421. [illegible] duration of the experiment having been one minutes this will give 236,938 ft. lbs per minute or 7.2 horse power in the calorimeter. There is no reason for going behind this; since the 7.2 horse power are in the form of electricity outside of the pressure line and useful and [illegible]

Corps.

By using the formula involving the thermal equivalent of heat used in a steam engine in the form of steam, you have determined the horse power developed by the heat shown in the calorimeter if the latter were in — generating steam under 25 lbs gauge pressure. It was never was proposed to convert the calorimeter into a boiler in which steam was generated by a copper wire heated by electricity, as the same electricity would give far greater economy in an electro magnetic engine.

The horse power in Ex. 1 I have shown as practically equal to 7.2 H.P. and yet you make it only 0.63 H.P.

7.

The natural inference to be drawn from your calculations in this instance would be that 0.63 H.P. internal work has mysteriously produced 7.2 H.P. in electrical work!

The [illegible] in the [illegible] 3319 H.P. internal work has produced

$$\frac{3351.77 \times 772}{11.5 \times 33{,}000} = 6.8 \text{ H.P.}!$$

Slight discrepancy in the initial steps made your first H.P. in Ex. 2 0.81 instead of 5.99 H.P.

Since in the first experiment the balance of work, as shown by indicator, which was expended in generating electricity to heat the calorimeter was 11.5 H.P. and the units of heat returned by the calorimeter were equivalent to 7.2 H.P. The efficiency by your

own data $\frac{7.2}{11.53} = 62\%$
at the least and in the same
experiment $\frac{6.8}{13.28} = 51\%$.

The
which
condensing
29 H.P. per minute
cator diagrams D & E show
steadiness

Yours Truly
Thos. A. Edison
E.J.K.

Apl 22d

G. H. Phyfe Esq
Chicago

Dear Sir

Referring to yours of the 7th, if you are not going to pay the annuities on the Electric pen in Europe please turn the Contract over to me and we will square the account and I will see if I cannot do something with it over there.

Very truly
T. A. Edison
Cg

Apl 28

Dear Sir &c.

Referring to your telegram of the 20th, you labor under a mistake if you think I have promised a settlement. I have already stated to you that I has never recd a cent from the arrangement but was out of pocket both for expenses and for my time spent in perfecting the system and going to England. What I stated was that I did not like to see your people lose money by any of my inventions and that I would try and help you to get your money back. that among my many enterprises I could undoubtedly put you in the way of so doing. Your people now there have entered into some arrangement with Mr Riff and Riff has paid some money to keep the patents up lately and I have signed a letter of same kind to the Solicitor. N.

(c)

Mr John Linder at his request. I shall do all in my power to aid your people to get their money returned but I shall not pay that which I do not morally or legally owe, and that from a speculator in from which I have suffered as much as yourselves. I will see Mr Reiff in regard to the nature of the understanding between him and Mr Linder and see what can be done.

Very truly
D. A. Ellison
by

J. H. Fullerton M.P.
NM

©

Apl 29

John Michels Esq.
NY.

Dear Sir

Your favor of the 27th with prospectus was duly rec'd. Mr. Ellison requests me to say that if satisfactory arrangements can be made he will take the 20 shares. He wishes to consult some friends in NY. and endeavor to get them interested also.

Yours truly
S. L. Griffin

May 4

Geo H Bliss Esq
Chicago

Dear Sir I think I have already written you in regard to the E Pen in Europe but do not recollect receiving a reply. I wish to know if you will turn over the European pen to me so I can try and do something with it. An early reply will be appreciated

Very truly
T. A. Edison

May 4

Theo Puskas Esq
Paris

(2)

My dear Puskas I understand the Bank Egyptienne want a guarantee about the receipt for making Carbon buttons. You have a press and all the appurtenances for moulding Carbon buttons, have you not, and can you arrange to make the buttons on the press? I will supply the pure lamp black in bulk. Please answer fully and say whether I shall send the lamp-black.

Very truly
T. A. Edison

885

Letterbook, LB-006

This letterbook covers the period May 1880-April 1881. Most of the correspondence is by Edison. There is also correspondence by William Carman and Charles L. Clarke. Most of Edison's letters are in the hand of Carman or Clarke, acting as Edison's secretary. The correspondence relates primarily to electric lighting. There are many letters about dynamos, steam engines, and bamboo supplies in Latin America. There is also some patent-related correspondence regarding assignments, fees, royalties, and litigation involving the telephone and multiplex telegraph. A few letters concern mining and electric railroads. Among the recipients are S. Bergmann & Co., Jose D. Husbands, Charles T. Porter, and Lemuel W. Serrell. The spine is labeled "1880-1881" and is stamped "Letters 10." The book contains 1,001 numbered pages and an index. Approximately 20 percent of the book has been filmed.

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Monsanto M M	837.	
Munro Geo	877.	
M		

McLaughlin Frank	24.	
McKissock & Robbins	754. 761. 929. 967. 26. 39. 115. 339. 450. 474. 520. 607.	617. 619. 650. 667. 696. 721. 735.
McMinn J. M	36. 54.	
McNab & Carlin	78. 934. 313. 493. 518. 545. 600. 661.	732. 760. 786. 934. 957. 994.
McLeren Jas.	94. 111. 206.	
McMillan J. T	180. 414.	
McPherson Senator	414.	
McCormick J.	772.	
McLuegan J.	784.	
McDonald J. T.	820.	

Newell J W Pages	73.647.	
Norfolk Fibre Co "	299.	
Nelson Editor	703.	
Newton Geo B.	762.	
Newman J P Dr.	877.	
Newyork Power & Pencil Co	907.	
Norse Stanchury	911.	

Oregon S.L. & R.R. Nav. Co.	95	
Ogden & Co	337	
Orly Gardiner	715	

Pratt.	845.
Pratt & Co	1151.204.336.369.381.429.449.454.466.567.[illegible].624.642.676
Pliny M.	13.32.35.52.63.181.204.227.300.386.490.[illegible].593.660.674.[illegible]
Planter J. P.	27.
Pioneer Iron Works	84.59.83.87.363.
Prokop Pius	67.
Patterson Jos	75.80.470.986.
Pritchard & McKnight	84.85.127.138.225
Pratt & Whitney	119.126.180.150.221.256.317.335.391.469.48.1508.533.980
Patton W. H.	125.222.289.498. 665.165.180.[illegible].835.847.887.
Porter Chas	129.210.218.219.364.376.535.557.559.566.595.[illegible].650
Park Bros & Co	148.
Pleasant Mining Co	182.
Park & Tilford	185.340.897.
Parker, C.	202.
Printing Co Globe	208.
P R R Coal Co	316.414.
Painter W. H.	310.664.665.861.
Page Ridder & Co	320.
Phenix Bon Co	329.
Pine Firwood & C	378.
Putnam Mach Co.	388.
Phillip S. P.	391.423.
Pinur M	455.
Peltier A	495.791.797.
Price Chas	527.
Pocks & Co	634.
Pierson Ed	636.
Patterson & Co	647.695.
Pescod Wm	649.
Polytechnical Journal	700.
Philosophical Magazine	706.
Phelps Dodge	746.825.
Peters Mfg Co	777.
Parker Justus	823.

Price Gold 934.
Polhemus J. 930.
Price Well & Co Co. 904.
Prang & Co 919.

Quarlich B Page 120, 324, 362, 743

Rochester Rile.	20.	
Reiff J. C.	28.29.178.554.749.792.846.	
Richmond F. R	43.	
Riley W. W	55.	
Richard H. C	179.	
Reid C.	179.	
Randall Wm. H	193.	
Roebling J. A	203.	
Rowland Wm	208.250.	
Renshaw A. G.	243.314.	
Raymond Geo. B	244.747.	
Russell H. L	247.303.	
Rogers C. B.	327.	
Rowland H. A	334.594.	
Russell J. A	451.	
Richards C. B.	456.811.	
Rubber Co. Novelty	482.525.652.939.	
Raettig Chas	515.	
Runyon Phillips & Co	542.	
Roebelt H. L	542.	
Reynold Mr	603.	
Ribkoff H.	669.	
Roake Wm	785.	
Ramires J. B.	796.	
Rogers J. H.	815	
Ritchie Wm & Co	818.855.	
Richmond E. R.	873.	
Russell Wm	894.	
Rogers J. F. & Co	915.	
Rayfo C. D	943.	

Name		
	822.829.911.	
Sarrell L. W. Page	~~428.442.443.446.499.554.~~ 1.10.14.62.68.76.86.97.132.135.242.282.346.347.355.366.388.418.	~~578.~~ 583.589.652.748.770.789.792.
Sellers Wm	21.71.221.276.313.411.636.638.898.867.	
Seymour Jas Whitcomb	64.113.492.803.808	
Stoke H. L.	90.	
Steel Works Newark	136.	
Steel Works Thompson	136.190.231.249.	
Steel Adirondack	137.	
Steel Rensalear Co	144.	
Stull H.	183.	
Salamander Brick	187.246.727.787.837.899.925.	
Shapter S. J.	235.293.	
Spence E. B.	267.277.289.378.427.432.443.	511.856.857.871.879.
Silleman Journal	299.	
Stansby Wm	302.325.509.568.609.677.698.721.764.798.844.	
Stuntebant B. P.	349.	
Stivers L.	374.	
Sigler Wm J	394.	
Shotwell A H	456.484.614.	
South Newark Foundry	496.777.805.835.	
Starbuck H. H.	524.	
~~Smith Seth~~	~~544~~	
Swinnage Wm A	604.	
Strong Geo.	651.678.	
Shiards & Co	688.	
Smith L.	704.	
Scott Geo B	750.879.	
Swift Geo F	782.919.	
Swartwelle M. L.	778.	
Shotwell A. P.	782.	
Stephens B. M.	814.	
Tomm — P. L. & S.	857.	

Names	
~~Parkers Manifolding Pages~~	~~96~~
Taylor J Minor "	23
Thompson A O "	77
Tirrill F "	79.
Telephone to Edison "	145. 151.
Harlman & McFadden	214. 352. 961.
Taylor G H	396.
Thomas J H	491.
Thompson J W	534. 551. 654. 736. 901.
Page and Bard to America	729.

Vail J. H. Pages	54. 699.
Van Buren Ed Keys.	616
Van Winkle + Stout	993. 185. 257.
Vannostrand D.	195. 307. 360. 441. 404. 406. 449. 960.
Vanderbeck + Sons	644. 709. 724. 725. 746. 75. 793. 850. 899. 916. 195. 240. 345. 350. 392. 397. 457. 463. 493. 496. 513. 539. 545. 576. 573. 871
Vulcanized Fibre Co	375. 398. 400. 431. 563. 586. 680. 730. 807. 959.
Van Nostrand Engineering	705.
Van Buren M	737.
Vroom N. D. W.	783. 794.
Vrabaffel. H.	840.
Van Allo Geo	924.
Van Winkle about and Co	993.

Names		
Watch Co Amer	11.	
Wheel works Foundry J C	30. 36. 38.	
~~Wh Mfg Co~~	44. 152. 226. 405. 431. 620. 733.	
Whitmore Jas O	61.	
West Point Foundry	74. 91.	
White Arnold	99. 212.	
Welsh R & Co	180.	
Ward G S.	213.	
Wilkins Wm	233. 651	
Williamson D. H.	302. 504.	
Watts Campbell & Co	335.	
Wallace & Co W.H.	357.	
Warner A	430.	
Watch Co American	472.	
Whitlier P B.	489. 636.	
Wiss J.	505.	
Wilkins Mr	638.	
Wilson J.	640.	
Williams S.B.	751.	
Wright Wm	776.	
Washburne R.M.	800.	
Woodward A.P	880.	
Williams D.B.	920	
Wharton Jas	942. 968. 971.	
Watts Campbell and Co	961.	
Wallace Wm	992.	

Names		
Yohn Bros	4.	
Young v Morgan	78.	
Yoder Lock Co	200. 778. 798.	
Young E A Bros	803.	

3 2

(C)

1.

May 7 1880

My dear Sir.

Your kind favor of the 21st was duly rec'd. It is hardly necessary for me to say that I heartily approve of the proposed amalgamation and it would be farthest from my thoughts to put anything in the way of the present share holders or be an obstructionist but I cannot in view of my knowledge of the Commercial aspects of the telephone in this Country the enormous profits now being made and the great future here, accept the £10,000 cash or shares. I much prefer to wait and I will be glad to take my chances.

Thanking you for the efforts which you have made to further our telephone interests and which I assure you have been greatly appreciated.

I remain

Cordially yours

Thomas A Edison

Rt Hon E. P. Bouverie
Chairman etc London

May 11

L. W. Serrell Esq
New York

Dear Sir

Referring to your favor of the 7th I should say that I do want No 10 British Sax Insulated.

Very truly
T. A. Edison
9

May 12

J. H. Harjes Esq
Paris France

(C)

Dear Sir

Referring to your kind favor of April 1st I wish to say that I can fully understand the arduous labors and annoyances to which you have been subjected in attending to my telephone interests and I fully appreciate what you have done.

Sooner or later I hope to be able to place other business in your hands (provided you desire it) which will be more pleasant to attend to and more remunerative, meanwhile I remain,

Very truly yours
Thos A Edison
-G

May 12

Charles Pratt & Co
N.Y.

Gentlemen:

We have rec'd no Gasoline this week. Did you not receive an order to ship us (2) two barrels of Gasoline every week. If not please accept this as an order and dont fail to fill it promptly.

Very truly
T A Edison
-G

May 13th

L. W. Serrell Esq
NY

Dear Sir

Referring to yours of the 11th regarding pellicle statement in the Volker case I would say that it has been forwarded to the Patent office

Very truly
T. A. Edison
Eq

(C)

Merle Park N.J. May 17, 1880

Maj Frank McLaughlin
Oroville Cala

Dear Sir,

Your reports and telegrams were duly rec'd. The black sand process is now perfected. I would like to commence on black sand which is as pure as can be had. What about the boats? We are working at a process that we think will do away with the mill entirely and this is the reason why the plans are not sent to you. We propose after taking black sand out to take the gold out of the tailings in the same way. If it can be made to work it will be enormous. Keep a lookout for black sand - make enquiries of miners regarding deposits of the same and make a record of them. I should like some Lava black sand and more of the boat sands. Have Powers save all the black sand in cleaning up so we can work it. There was very little gold in the tailings you sent from Bogman's Tyson. After you left Tyson that was a bag of pyrites which he picked out from his sluices in the clean up. I panned some on the spot but could see no gold. But the Dr in Colfax found an enormous quantity of gold. We thought

(C)

it must be in the pyrites. We picked some pyrites out & found no gold. This puzzled us greatly but I soon found out that the gold was covered with the thickest coat of rust that I have ever yet seen. It required 5 days to eat off the rust without dissolving the gold but I suppose there is not much of this. The Spring Valley tailings you sent were quite poor, evidently the gold is down deeper - still what you sent could be concentrated by sifting up to $5 per ton. At present our blk sand process is absolutely perfect. Now if you can furnish us a deposit of blk sand we are ready for business. What about that party that promised to send you a large boulder of pyrites - a piece of which you brought here? Also how about that place in a tunnel where you said it was 200 feet of black sand?

The North Bloomfield sent me some black sand which contained $5.00 to the cubic yard. There was more gold in the Spg Valley tailings than in the lower flume which you sent me.

Very truly
G. A. Gibson
per S. L. Griffin

May 18

(C)

J. B. Keiff Esq
Ill

Dear Sir
Referring to your favours of the 13th + 16th inst the 5 year contract with the W.U. Telegph Co has never been modified. I have drawn and still continue to draw from the above named Company $100 per week.

Very truly
T. A. Edison

Strong Fuel + Gas lighting Co NY

(C)

May 27

Gentlemen,

Your favor of the 25th was duly rec'd. I shall require from 2 to 3000 c feet of heating gas per diem in the glass blowing shop now being put in order. I wish to know if it can be conveniently & regularly shipped from your works and at what price. Will the Railroad Company forward it every day or only on special days the same as petroleum etc? Or would it be cheaper to make the gas here and if so what would be the cost of the plant of the above mentioned capacity including everything put up in working order and at what price can it be rec'd per M? A early reply will be appreciated

Very truly T. A. Edison

May 27 (C)

Drexel Morgan & Co
NY

Gentlemen. Will you please send a cablegram to Mr Hanger upon receipt of this letter saying that the Shares of the French Telephone Co belong One third to Edison one third to Puskas One third to Bailey, and forward to Mr Hanger a copy of this letter stating to him in the telegram that you have sent it and greatly oblige.

Very truly

Thomas A Edison

May 26

Western Electric Mfg Co.
Gents

I wrote you some time ago in regard to our statement on Electric Pen Royalty and you at that time promised me on the return of your Book keeper to send me a regular monthly statement of the account which I have failed to receive - the last statement I received was for October 1879 so I ought to have received one at least from that time - where does the trouble lie - do you intend to send us any more or not - It causes considerable trouble for us to be writing in regard to this matter please give this your attention at once and oblige

Very truly yours
T A Edison
Carman.

(C)

May 28

M. M. Moore Esq
Hdq

Dear Sir

Your favor of yesterday is just at hand. The contract I signed was returned at once and I have no copy. I do not understand the charge matter and am so thoroughly mixed up in my mind regarding the Jackson business that I can hardly say I do not understand that. They sent me the contract and acted upon the supposition that I was thoroughly informed as they were. I return the Johnson letter herewith.

Very truly
D. H. Reimer

(C)

June 1st

Drexel Morgan & Co
NY

Gentlemen: Referring to your favor of the 28th and to your telegram today please be kind enough to cable Mr Harjes as follows:

"Proceeds sales French patents shared as stated previous telegram thirds Edison thirds Puskas thirds Bailey One third expenses borne by Bailey other two thirds expenses depends on original contract between Puskas and myself will be settled between us on his arrival Hold both our shares pending settlement."

Very truly

Thos A Edison

June 1st

(C)

W. Wilshire Riley Esq
New York

Dear Sir

Your favor of May 28th was duly rec'd. I cannot go into the building of Electrical Railway apparatus just yet. The Car I have here is merely experimental and will require quite a great deal of work to make it practical. I am making changes in it daily and do not know yet where the end is.

Very truly yours
T. A. Edison

June 2d

Gentlemen;
Enclosed please find Check for $3
Please send the Wrekey Mining News for one Year, commencing with No. 1.

Very Truly
T. A. Edison
G

The Wrekey Mining News
New York

June 1st

Chas. P. Geer Esq
Ogdensburg N.Y.

Dear Sir:
The bags you sent were received and the samples assayed. I think we can fix up a process that will be satisfactory but prefer to wait a little while to make further experiments. Please send more particulars about the poor & rich bag - quantity - how mined - location from RR - if wood is plentiful - how much teaming - how you can mine - width of vein etc.

Very Truly
T. A. Edison
G

June 22

(C)

Messrs Drexel Morgan & Co
New York

Gentlemen:

Referring to your favor of yesterday's date which is just at hand, the delay in replying to Mr Harjes cablegrams arose from the fact that I was unable to find Mr Bailey's address and it was necessary that he should be consulted before the telegrams were sent. Mr Bailey having been here I sent a letter to you by him covering all the points of inquiry and all required information for Mr Harjes which letter I presume has reached you ere this.

Very truly
T. A. Edison
9

June 8th

Messrs Menand & Co
NY

Gentlemen:

Please send me two electrotypes of the cut which appeared in the Scientific American of June 8th of the Electrical Railway

& oblige

Very truly
T. A. Edison

June 2d

L. W. Serrell Esq
New York

Dear Sir

Referring to your favor of May 4th regarding annuities on foreign patents. Please cable your agents in Europe to pay them and charge my account.

Very truly
T. A. Edison
9

June 2d

L. W. Serrell Esq
New York

Dear Sir. Referring to your favor of May 3d regarding the Wolker interference I sent the preliminary statement to the Pat Office May 12th, I think, but it was not witnessed and lacked Notary's seal. Pat Office has probably overlooked it. Will it be all right?

Very truly
T. A. Edison
9

Copy

New York May 22, 80

Thos A Edison
Menlo Park N.J.

Dear Sir I have to advise you that your French & Italian patents on Phonograph require to be worked in France and Italy before the dates given below.
French dated June 7, 1878 No 124,974 must be worked before Sept 16, 1880
Italy dated June 22, 1878 No 10113 must be worked before July 22, 1880

Yours truly
(Signed) L. W. Serrell

June 7

Theo Puskas Esq.

Dear Sir I have just received the following letter from Mr Serrell. The patents should be worked and the laws in the countries referred to complied with.

Very truly
T. A. Edison

June 7

L. W. Serrell Esq
NY

Dear Sir

Referring to your favor of May 22d regarding the working of the Phonograph in France & Italy. Phonos have been worked in France since it was patented. Does not that comply with the law?

Very truly
T. A. Edison

June 7th

Dear Sir,

Your favor of May 17th was duly rec'd. I have an apparatus which will separate the finest flow gold from black sand but to make it pay the sand should be very black and not much white or red colored sand mixed with it. If a large deposit of this sand can be procured the machine I have will answer admirably. I expect to have an agent up on that coast next Summer.

Very truly
T. A. Edison

Nicholas C. Lorentzen Esq
~~Fort Oxford Or~~

(C)

June 7

D. W. Maurice Esq
Eureka Cola

Dear Sir

Your favor of the 8th ult was duly rec'd. The sample you sent was nearly iridium but there is 20% platinum. Thus pure platinum is worth about $4 per oz. This would make the price of sample sent about $8 per oz.

If this price would pay the miners for saving it I could take all they have at that price.

Are there any black sand deposits in your region consisting of nearly pure black sand containing flour gold? If so I have a machine which will run through 300 tons a day at a mere nominal cost. If you can send me samples say a pound or so by mail I will gladly make an examination of them and report. If you send samples mark them so I may know who and where they are from.

Yours truly
T. A. Edison

June 9th

L. W. Serrell Esq
N.Y.

Dear Sir

Please ascertain if all the annuities on Electric Light Patents outside of the U.S. have been paid. Keep everything fixed up as I have authority to draw for the money for that purpose at any time. How about the annuities on the telephone in various countries, have you means of knowing if all have been paid or what have not been paid? I see that Denmark E.L. is a five year patent. Don't take out Denmark hereafter for 5 but 15 years if that cannot be done we had better not take it at all.

Very truly
T. A. Edison
(G)

June 9

Patterson Bros
Gents

Enclosed please
find check for 181.40/100 to May 1. 1880
please acknowledge receipt

Very truly
T A Edison
Carman

Jun 9

Mutual Life Ins Co
Gents

Enclosed find
Check for $105 - Dust and Insurance
1880 property at Menlo Park N.J.

Very truly
T A Edison
Carman

June 17

James W. Drew Esq
Dear Sir

As I intend to extend my Electric Railway about one half mile I would like if not asking too much of you to have about ten cars of Gravel please do not hesitate to tell us if we are asking to much off you in regard to this - If we can do anything for you in return we are at your services

Yours truly
T A Edison
Commr

June 14th

L. W. Serrell Esq
New York

Dear Sir

Referring to your favor of June 9th regarding the 3 years tax on Eng patent on Telephones - the patent was transferred to the Edison Telephone Co of London and it is their business to attend to the payment of taxes &c I have sent a copy of your letter to Arnold White Secy of the London Co this day -

Very truly
T A Edison

4 The diamond holder A should be set at the same angle as shown in fig 1

5 Set the diamond as much above the centre as shown in fig 2

I send bill of this in other letter with a full statement of one of both of Mr Aldred and T A Edison

Yours truly
Wm Carman

Directions for using Stewart lathe for chalk & Bullows

1 Put the flat side of the chalk against the round piece of wood in the chuck. face off the end and counter sink the hole with the flat centre

2 turn the chalk over to gauge short the hole with flat centre run drill through. put chalk on sleeve and mandrill and turn it down with the hand tool within a 1/32 of an inch to the right diameter.

3 use the diamond only to take a very small finishing cut as it would break off by taking more than 1/32 of an inch

1 Enclosure

June 17th

Arnold White Esq
London

Dear Sir

I send herewith a copy of a letter which Mr Sewell sends me — the patent referred to was sent to you several months ago or to the Edison Telephone Co of London and the taxes should be paid by the Co. If there should be any misunderstanding in regard to the matter please advise me upon receipt of this letter.

Very truly yours
T. A. Edison

Copy

New York June 9. 80

Thos A Edison Esq
Menlo Park N.J.

Dear Sir: I have to advise you that the 3d years tax on your English patent on Telephones dated July 30-1877 No 2909 is due July 30 1880. The amount of this tax is $275 including Expenses and the funds and patent should be sent from here by July 15th in order to be in time. Please let me know your wishes in the matter.

Yours Truly
(signed) Lemuel W Serrell

Yours
Wm Carman

The order has been confirmed by the Stocks have been posted to date

2

I enclose you a statement of all goods shipped to you from the beginning to date and which fills as I understand all the orders received. If it does not please let me know and I will have it attended to. Mr Edison says he has not received the hammer you sent as yet. I do not know of anything to write at present the E. Light experiment goes on fragressively. we have now an electric Railway cars run at 60 miles per hour. on all sorts of grades. I will send you the scientific amercan with a cut on it in the R. Way.

Yours
Mr Barman

June 17

J W Husband Esq
Dear Sir

We shipped to your address yesterday through Mr Eldred one stewart lathe and fixtures for turning chalk for telephones. In a letter to Mr Edison received this morning you say orders have not been filled. as your orders are received here we fill part of the order and send the goods immediately to the P. M. S.S. dock and notify Mr Eldred about and receive word from him that he has received them, so as far as Mr Edison is concerned the orders are filled to date. the remainder of the order I am informed by Mr Storke have been filled to date

J. W. Copeland

Dr. Thos. A. Edison

Bill #10

Nov 20	6	Complete Relay Telephones @	105.00
	100	Carbon Buttons "	10.00
	1	Burial Board	84.00
	35	Ebonite sec sleeves 25	3.75
	5	" with " not turned 25	1.22
	2	" " " turned	.50
	6	extra mouth pieces wood 50	3.00
	8	Composition "	.21
	6	Binding posts complete	.48
	3	Rubber springs	.15
	8	Pins	.08
	8	Steel spring washers	.15
	3	Transmitter diaphragms	.20
	2	Receiver " [illegible]	.40
	2	Bonnet rings 3	.66
	3	Platinum connections 9 1 Pendant Sty 50	.59
	2	Screws 4 Transmitter adj screws 10	.22
		Lot insulated screws washers etc	3.15
	4	Key Buttons	.16
	1	Transmitter [illegible]	.08
	2	Receiver [illegible]	.[illegible]
	2	Transmitter "	.75
	2	Switch "	[illegible]
	1	Adjusting screw	[illegible]
	1	Complete Push Button	[illegible]
		Boxing and packing	[illegible]

J. S. Husbrine

Dr. T. A. Edison

Nov 20	work in shop Pay Roll		$2.75
" 27	money advanced to Mr Edison		300.00
Feb 11	Bergmann Bill	#7	550.65
Mar 8	Cash Sundries in neg		14.57
"	" " "		2.00
Feb 26	S. Bergman	" 2	1018.35
Mar 6	Fare Neg - exh		1.20
Apr 10	Bills in regard to chalk		57.11
" 1	S. Bergman	" 3	10.00
" 26	" "	" 4	1152.00
May 14	Bee Bill	" 5	44.00
" 17	S. Bergman	" 6	136.00
" 29	S. Bergman	" 7	136.00
June 3	F. J. Hill	" 8	180.00
" 11	W. G. Hidden	" 9	15.00
Feb 11	Bee Bill	" 10	221.56
" 17	" "	" 11	305
			4819.74

Bergman Bill #7

Dr. T. A. Edison

Feb 26	55 Tel. Bells	13½	760.10
	55 Extra Bells	1.25	68.75
	55 Bells in refined	"	11.00
	5 Complete Sets Bells		165.00
			$1018.35

Feb 11

Dr. T. A. Edison

Feb 11	45 Telephone	13½	621.90
	45 Open Bells	1.25	56.75
	2 Switch Boards	"	168.00
			$550.65

Copy Rec #4

D. A. Edson

D. S. Bergmann

Apr. 26 50 Hickory 13 00 691.00

100 Rice " 1.35 135.00

100 Wheat flour 20.00

4 Bottle Brandy 5.00 33.00

1112.00

Copy Rec #3

D. A. Edson

D. S. Bergmann

Apr. 8 50 wooden kegs ordered by Mr. Bell 10.00

Copy Rec #5

May 15

J. S. Sherwood

D. A. Edson

May 1 50 Molasses 13 12 650.00

200 Sugar " 12 24.00

J. 674.00

Copy Rec #

D. A. Edson

D. S. Bergmann

May 1 50 Molasses 13 12 650.00

100 Rice " 12 24.00

100 Sugar " 12 24.00

100 Wheat flour 10.00

100 Pork - barrel 16.00

50 Lard " 6.25

1 " " Lard 2.00

1 " " Cheese 2.00

1 " " Cayenne .75

20 Canned Pineapple 2.00

Freight charges 2.00

J. 736.00

Copy Bill #9

T A Edison

To W S Hidden

June 11 Menlo Park $5.00

Copy Bill #6

T A Edison

To J J Hill

Gun - No 6 Rifle & slide not $15.00

1/3 11.50

103.50

4½ in chuck fitted 13.00

Boring 3.50

120.00

Copy Bill #7

T A Edison

To E Bergmann

May 27 12 Bills 1 ea 67.50

12 Reducers & Cones 45.00

12 Arms 24.00

136.50

June 7
Dec 11

[illegible] Westbrook
[illegible] A Robinson

Hand tools	50
Flat [illegible]	50
Hay	50
Wheat	70
Pork [illegible]	25
Rheumatic [illegible]	50
	2.05

June 17

J. W. Husband Esq.

Dear Sir

The within bills cover every thing to date Mr Edisons Electric bills making in all from beginning $5053.97 — I acknowledge in this letter the receipt of $2961 25/100

Mar	13	962
Apr	14	500
Apr	23	499.25
	29	1000.
		2961 25

of this amount I have paid 1480 Eldred $1481.00

Respt Yours
Wm Carman

June 24

Bernard Quaritch Esq
London

Dear Sir

Please send me
Sir F Ronalds Catalogue
of Books & papers relating
to Electricity, Magnetism
&c as per your circular
dated June 9th

Very truly
T. A. Edison
9

June 29

W. H. Patton Esq
Virginia City, Nev
D. – Sir

Your favor of the 8th was duly rec'd. I have my system of transporting power perfected. I have in operation here on Carson railway 3/4 of a mile long. 20 h.p. applied gives 15 h.p. available at the extremity. Mr. Ramsbey speaking if it was desired to translate 700 h.p. in to Virginia from the Carson River, say miles, there would have to be applied to the apparatus at Carson River 1000 – there was no loss on the conductor but this loss may be great or little according to the money invested in the copper conductor. Perhaps 80 h.p. would be the loss although the power actually can be

(C)

2

made. This would call for 1050 h.p. giving 700 h.p. available for use in one or 100 places in Virginia City without material loss by subdivision. To Carson was 150 from Carson River to Virginia is a perfectly practical scheme and would pay big.

Very truly
T. Edison
Esq

July 8

L. W. Serrell Esq.
N.Y.

Dear Sir

Your favor of even date regarding the rejection of claims in C. L. Applications in Ottoman Empire is just at hand. You can cable your agent that both cases will be appealed and I will give the matter prompt attention

Very truly Yours
T. A. Edison

July 15

W. N. Dennison Esq.
Sparta Co.

Dear Sir. The black sand sent us is rich in gold and if there is sufficient quantities and if it is all as black as the sample our process will work it with the greatest economy & facility. Please send full information regarding the deposit. Is wood & water plentiful. Was the sample sent concentrated? What is the extent of the deposit & its accessibility?

Very truly
T. A. Edison

July 16th

C

Camille Ried Esq
Boston

Dear Sir:

Your favor of July 1st was duly recd. Bell Has Ho telephone pat's in Germany he cannot work there without infringing ours. The Edison Telephone Co of Europe Limited have full power in the matter you refer to. Their address is No 19 William St N.Y.

Very truly
T A Edison
g

July 16th

H. C. Richards Esq
Fort Bridger Wy

Dear Sir:

The black sand you sent contained $352. gold per ton. I suppose it was concentration from panning or from the sluice. I can work this sand (if it is black as the sample sent) with the greatest facility & economy and can extract at least 97% of flour gold from it. Please give fuller particulars - do you control the mine?. Is there wood & water plenty? State all the conditions - what is the nature of the deposit and its accessibility!

Very truly
T A Edison
g

July 16th

G. M. Miller Esq
Paris Ky

Dear Sir: The black sand you sent me was very rich in gold and amalgam. I suppose it is concentrations from a flume. I could work such sand with the greatest facility. Please write fully, stating

Very truly
T. A. Edison
by

July 16th

R. C. Welch Esq
Redwood Cala

Dear Sir: The package you sent me is exceedingly rich in fine gold. I can work it at but slight expense and without any difficulty. Please give full particulars as to deposit and if you own it and if there is plenty wood and water near by or how far.

Very truly
T. A. Edison
by

July 16

Ormsby Mining & Water Co
Spanish Ranche Colo

Gentlemen.

I can work the black sands sent here by you with the greatest economy and facility and extract all the gold and monetary therefrom but there should be large deposits of it as my machine has capacity of 100 tons per day. We find the gold in your sample is mostly rusty and hence cannot be amalgamated. This makes no difference in my process which extracts all the flour & rusty gold.

Yours truly
T A Edison
Cy

July 16th

H Stull Esq
Lambs Bridge Colo

Dear Sir:

The samples you sent contained large quantities of platinum, platinum iridium and osmium iridium with some gold. Our process would take these metals out of sand with the greatest economy and facility if there was sufficient quantities of black sand and if it was as black as the sample you sent. Was the sample sent concentrated by sluicing or hand panning from a large bulk of black sand? I should be happy to make arrangements with you to put my process in operation if the deposit is sufficient and the conditions proper for working. Please give full information as to how you prepared sample. Where is Lambs Bridge and do you have plenty wood & water there?

Yours truly
T A Edison
Cy

1282

2

to misunderstood matters. I told you before you left Menlo Park that I had already made contracts to parties and disposed of the whole of South America on the Light. What I intended to do was (provided you were successful with the Telephone) to arrange it with the parties who hold the contracts to take care of you so that you could introduce it and have the Science part of the exploitation. This I fully intended doing. I will consider it a special favor if you will just let matters take their course as I intended from the first that they should.

Very truly

Thomas A Edison

July 16th

C

J. D. Husbands, Esq
Valparaiso

Dear Sir:

I am just in receipt of a letter from the firm of Fabbri & Chauncey New York who have a letter from their correspondent in Valparaiso dated May 22d in which the following passage occurs:

"Edison Light – We have again put in our application for the exclusion privilege as you will see by the copy of "El Ferro Carril" we mail today. We were not a little surprised yesterday at a visit we received from Mr Husbands – representative of the Compañia Chilena de Telephone de Edison who said that if our power of attorney was not of later date to a contract he had with Mr Edison for the introduction of his Electric Light in Peru & Chili and is much surprised at Mr Edison sending his power, to us."

I consider it unfortunate that you

July 19th

E. M. Barton Esq.
NY

Dear Sir:

Referring to your favor of the 8th regarding the telephone in Australia. I dont understand what you say about my not having a patent there. I know I paid $950 in gold for it and therefore think you must be mistaken.

Very truly
T. A. Edison

July 19

Arnold White Esq
London

Dear Sir:

Referring to yours of June 29th regarding the taxes on Telephone Patents, which I particularly desired to know ~~who~~ whether you had the original patent (#2909) as I cannot find it among my papers and am under the impression it was mailed to you.

Very truly yours
T. A. Edison

July 20,

Chas T. Porter, Esq.

Dear Sir,

Your letter of the 19th inst. is at hand. I feel satisfied with your representations respecting the success, for economy and durability, of the high-speed engine which you are at present constructing. I have concluded to give you an order for a second engine, to develope 120 H.P. at 600 revolutions per minute, with a boiler pressure of 120 lbs.

Yours truly,

Thos A. Edison

July 20

C

Mr. Chas. L. Porter.

My dear Sir,

The engine which Mr. Edison has ordered is intended for the operation of a division of a railroad and not for electric lighting.

The load to which it will be subjected will be very variable; resembling the duty of a rolling mill engine or working crushing machines; only the work in our case will be applied even more suddenly (instantaneously) and will vary with every variation in resistance on the line due to grades and curves &c.

You have said that you will carry 150 lbs. by and by and compound.

Are you thinking that you can adapt a compound engine to our high speed? I wish very much to know what your opinions are in this respect and, if agreeable to you, if you could tell me some reasons pro or con. If you can make it a perfect success now, economically and in other ways practicable, we would certainly like this second engine to be so constructed. What also would be relative costs as compared with single cyl. and the percent. of economy gained, which would have to be balanced against the extra first cost and additional cost of maintainance?

Yours very truly,

Charles L. Clarke

July 21st

W. H. Patten Esq.
Virginia City

Dear Sir:

I suppose your intention would be to use the present pump rods & tanks down to the 300 feet level and there to stop and further pumping to be done by magnetos. We have no data here to make calculations but suppose that after the 300 foot level a magneto of 60 h.p. would be sufficient for every 250 ft further than 300. Our generator consists of a Porter Allen Engine, cylinder 9x10 steam jacketed piston rod connected directly to magneto. The Engine makes 600 revolutions per minute. Non-condensing steam pressure 120 lbs. The 60 h.p. magnetos at the pump will give an actual duty of 1 h.p. for every 3½ lbs of Coal. The Engine direct gives a h.p. for every 2.00 lbs of coal. The [illegible] commutation from 2½ to 3½ [illegible] due to converting, friction etc, but not the friction etc of the pumping mechanism worked by the magnetos below.

As for hoisting I suppose you would establish a station at the 300 foot level with a small copy of the hoisting machine above and transfer men and ore at the 300 foot station. If you do this you might use say a 100 h.p. magneto with the hoisting apparatus at first and gradually add to the number as greater depths were reached, the magnetos could be coupled on and as you required more power from time to time. The space occupied by a 60 h.p. magneto is about 4x5x3. The Engine & magneto complete 8x9 by 3. The bobbin of the magneto acts as a fly wheel. Could you furnish me with a little data regarding your mine such as maps etc.

Yours Truly
T. A. Edison

P.S.
I have recently finished a diamond drill worked by a magneto direct

(C)

Menlo Park N.J. July 26, 80

J. B. Shapter Esq
New York

Dear Sir:

It is very difficult in the present state of the experiment to give the cost of apparatus but I can probably give you an estimate that will approach closely:

Cost in plant for one boat with capacity and equipments for 75 lights:

Engine & Electric machine complete	$1800
100 Lamps (25 extra)	60
Sockets	75
Wires to all parts of boat	200
Labor running wires, setting Engine	50
Total plant	$2185

Depreciation Engine etc at 6%	72
" Lamps	80
Int at 8% say	170
	$322

If running six hours daily 60 lights 10 horse power requires 35 lbs coal per hour or 210 lbs coal for six hours or 300 days in the year requires

28 tons at $4.20 per ton $117.60. The oil and waste may be estimated at $8 per year, making $125.60 as actual cost, hence:

Depreciation, interest etc	322
Power	125.60
Total cost per year	$447.60

In comparison with gas:

Each burner will burn 5 feet per hour - that is for 60 burners 300 feet for 6 hours, 1800 feet for 300 days 540 000 feet. This at $405.00.

Hence cost by Electric lighting	$447.60
" " Gas	405.00
In favor of gas	$42.60

But if the gas fixtures were added, the tanks and other apparatus upon the boat, breakage of globes, substitution of new burners at the jets etc, this gain would disappear.

1 - The advantages of the E. Light are that it is absolutely steady.
2 - That nothing can be set on fire by it.
3 - That it is not affected by wind.
4 - That it gives no trouble.
5 - That it gives a pure monochromic light.
6 - That it makes no incrustation but imitates exactly one gas jet.

3

In respect to the large lights of several hundred candle power, they are expensive, require a man to attend them, are unsuitable, and as the carbon is consumed they disintegrate and throw white hot carbon particles around so that pans are necessary to prevent the places where they are used from being set on fire.

In these estimates I have not allowed anything for royalty to the Edison E. L. Co but this will be reasonable and will not vary materially with the price. I do not think it will bring the price of the light equal to that given by 1000 feet of gas above $1. per thousand which may be considered reasonable when if city gas were used on the ferries $2 per 1000 would be the price to be paid.

Very truly
T. A. Edison
Esq.

July 26

Received from T A Edison
~~through~~ Wm Carman twelve
shares of Edison Telephone
Co (of Europe) stock

July 26

Mrs James Adams
Madison

Enclosed
you will find your share
of the certificates of stock in
the Edison Telephone Company
of Europe Limited Please
send me word of your receiving
it or send me receipt for
same

Very truly
Wm Carman

Menlo Park, N.J. July 28 0

Spuell, London.

Shares. Could buy any quotation with preference interest breaking guarantees. Shall centaur plighted. Aurelia princess. Selvis Acropolis clearings larger Niagara expect all Denver's police. Ramsbottom dollars received. Consols. parishioner buy rule rapidity. Adjourning ~~[illegible]~~ confining your participation. Receiving [illegible] reasons. [illegible]. Shareholders increased dividend.

seven or eight.
earnings enormous principally main line; leased lines now paying. Advise buying. Shall be glad antlered quotient or racketing share. Friends confidence in them in great.

July 29

L. W. Serrell Esq
New York

Dear Sir:

~~In what countries~~ in Australia did you take out Telephone patents, if any, Was you paid for them and by whom?

Very truly
T. A. Edison

it possible to obtain it

Yours truly,

W. Forward

Thomas A. Edison

July. 29

A. G. Renshaw Esq.
London.

Dear Sir,

It appears likely that you may be asked as trustee in the matter of the Edison reversionary interest in the Edison Telephone Company of London Limited to agree to accept in liquidation of said reversion some portion of the £115,000 of shares of the United Telephone Company of London Limited.

The undersigned being the principal parties in interest in the said reversion do hereby authorize you to accept in full settlement of the said reversion a payment in the said United Shares to the amount of £20,000 as a minimum leaving it to your discretion with regard to any larger amount if you find

July 31

A E Beach

Dear Sir

Please give me a price on a complete set of Encyclopedia American from beginning to date in bound form

Very truly
T A Edison
Chemist

July 31

Edgar Thomson Works Pittsburg

Thomas M Carnegie

Dear Sir

Yours of the 29. received — we are making some estimates for parties in South America and would like the present market price of pigs given although we should not need the rails for six months to come

Very truly
T A Edison
Chemist

Sent on Edison's hand writing
July 31

Copy of letter sent

Prof. Rowland

Friend Rowland

I think you misunderstand my letter. I will make out the patent papers drawings etc. all that I desire is a brief sketch of connections description field magnet shape frame armature commutator brush shape of it nature of brush. Kind of bearings must wear on which connected as a dynamo or otherwise please put the field magnet and every part you can send us. we have received the connections all right. after we send you the application to sign please give us a brief of dates and results and collect all sketches and memorandum of results and writings and keep the same in your possession as proofs for the enemy we will give them a warm fight.

Very truly
T A Edison

Aug 1

S Bergmann

Dear Sir

In answer to letter of Chas Batcher in regard to Phonograph. If they are not the same pitch they will not do as they must repeat. Can you not put the stop on for the tin foil so as to make it easy to put on the foil again. When I might ship here and send your 35 pound good foil with each Phonograph — I spoke to Edison about the money matter and he says he cannot raise it just now.

Very truly
Jno Ramsay

Aug 1

Babcock McCart
Enclosed
please find check for 6. for bill please receipt for same

Very truly
T A Edison
Ramsay

2552

Aug. 3

Combination Gas Mach Co
Gents

Yours of July 29 received we cannot complain of the price of machine as it is certainly very low. In application for our work it would not do we want it for experimental laboratory work and not to use as light. we shall to get up an arrangement of our own to suit the purpose — we are well pleased with your machine and should we want another for lighting purposes we will give you the preference

Very truly
T. A. Edison
Carman

(C)

Aug 1

Bernard Quaritch Esq
Dear Sir

Please send following which I find in your catalogues -

Annals of Natural History (3564) £40.
Annals of Electricity Magnetism and Chemistry 10 vols (5187) £9. 15s
Microscopical Society of London. (4914) £18.
Konigberg Royal Physical Society. £2. 16s
Memoirs Royal Academy Turin. 40 vols (3825) £14.
Trans Royal Society Victoria (3835) £3. 10s
Chemical Gazette + Chemical News, £5 + £16. 10s
Chemisch Phys arcanisches Cabinet, £7. 7s
Transactions Med + Physical Soc Bombay £5
Museum Sciences + Art Jardin. (16s -

Yours truly
Thomas A Edison

Aug 6

Chas T Porter

Dear Sir

We send the patterns by express to day for the Dynamo Electric Machine for which you are building the Steam Engine. Please have it cast in your foundry and planed to measurement as per enclosed sketch. blue lines indicate where the surfaces are to be planed - The whole and the two surfaces marked A & B should be particularly good. and in general we hope the castings will be fair parts to your Engine It is desirable that the Iron is as soft as can be used to make a good casting

Very truly yr R Edison

Aug 6

Mr Goodyear

Dear Sir

When speaking to you some time ago about making some arrangement about lots here please let me know how many lots you have remaining here – can you send me a sketch of them park shewing the lots not sold – How many lots are there, what price you take for all and on what terms and early answer will oblige

Very truly

Wm Carman

No 1

Menlo Park N.J. Aug 7, 1880

E. Speer Esq
New York

Dear Sir:

How about those abstracts of English patents. I need them immediately. Have you the whole set on hand? Or what parts can you furnish me and how soon thereafter can you fill the set?

Can you get me the Annalen der Chemie und Pharmacie by Wöhler Liebig & Kopp. 170 Vols of it up to 1873

If you can do so get the American Chemist Vol. 1 to Vol 4

And Transactions American Society Civil Engineers Vol 1 & 2

What is the price for a full set of Il Cimento and new series called Nuovo Cimento = Italian Scientific Journal

Journal de physique de Chimie et de l'Histoire Naturelle By J.C. de Lamétherie et Duvotay de Blainville.

Also Journal des Savants

2

Bulletin de la Academy del Rhône ou Societe des sciences et arts of Grenoble.

Archiv der mathematik und physik by J. A. Grunert

The Lionarde Arcadico di Scienze — Rome —

Journal fur die Chemie und physik by Af Gehlen Berlin.

Memoires de la Societe de physik et Historie Naturalle of Geneva.

Memorie dell Academie Imperiale delle Scienze di Genova

The Journal of the Franklin Institute complete to date

Complete set of Transactions of French Association of Science

Forbes medical Review London

Collezione di Opuscoli Scientifica

Bulletin des sciences mathematiques Astronomiques & Physiques & Chimiques Par Le Baron de Ferrussac Paris

Repertorium der experimental Physik by G. T. Fechner Leipzig

Memoires de la Academie Societe des Sciences of Palaise

Journal fur Technische und Oekonomische Chemie Von Otto Linne Erdman – Leipzic –

Journal fur Praktische Chemie Von Otto Linne Erdman Leipzic

Transactions of Society Engineers London

Elsners Chemisch Technische Mittheilungen Berlin

A complete set of the old publication called the Electrician Vols. It failed for a while and now appears again. Also Vols. new Electrician up to date.

The Transactions of the London Electrical Society

4

Edinburgh Philos Journal David Brewster & Robt Jameson Edinburgh

Edinburgh New Philosophical Journal by Robt Jamieson which is a continuation of that by Brewster mentioned above. Complete set from the beginning –

Also Edinburgh Journal of Science Conducted by Brewster

Transactions of Botanical Society of Edinburgh

Dublin Journal Medical & Chemical Science.

Dove's Repertorium der Physique Berlin – complete.

Memoirs de la academie des Sciences & arts of Dijon

Der Civilengenieur by Fenner Freiburg

Reports and Transactions of Royal Polytechnic Society of Cornwall Eng – Helmouth England

Full set of Chemist by J.C. Watt London

Memoires de la Societe Imperiale des Sciences Cherbourg France

Canadian Journal Science Industry & Art Toronto

Transactions of the Medical and Physical Society of Calcutta

Engineers Journal and Railway Chronicle of Calcutta

Memoires de les Academie des Sciences Caen France

Memoirs of the Academie Royal of Science at Brussells complete set

Recueil des actes de la Academie Sciences Bordeaux

Memoirs of the American Academy Arts + Sciences Cambridge + Boston

Memoirs de la Academie del Sciences of Bologna Italy

Memoires de la Societie des Sciences of Blois France

Bibliotheque Universelle des Sciences Geneva with the Archives complete

Bibliothica Italienne of Science Milan

Proceedings of the Italian Association for the advancement of Science full set

Memoirs of the Astronomical Society of London

Annales Telegrapheique Paris now at Geneva. Full set to date.

Proceedings of London Electrical Society by Chas Walker London

Les Mondes

Revue Hebdomedaire des Sciences by Abbe F Moigno

Memoirs of the Royal Society of Sciences Lille France

La Institut Journal des Academies des Scientifiques de la France et de l'Etranger

Memoirs of the Academy of Science Lisbon

Memoirs of the Academy of Sciences of Lyons France

Transactions of the Royal Society of arts of Mauritius

a Medical and Physical Journal by T Bradley and a Millich

Memoirs of the Royal Academy of Sciences of Metz France

Moignos Cosmos Paris

Memoirs of the section of Science of the Academy of Sciences of Montpellier France

Bulletin de la Société Industrielle de Mulhouse

Abhandlungen der Mathematisch-physikalischen Classe der Königl Baierischen Akademie der Wissenschaften Munich

The National History Review & Quarterly Journal of Science by Harvey & Haughton London & Dublin

Proceedings of the New Orleans Academy of Science

Memoirs of the Academy of Sciences of Padova Italy. Where all the transactions of that Academy relating to Science they were published in several forms.

Annales des ponts et Chaussees Complete set

Bulletin de la Societe de Encouragement pour Industrie Nationale Paris

Journal de l'Ecole Polytechnique Paris

Annalli di Chimica by Giovanni Polli Milan

Quarterly Journal of Science Art London

Revue Scientifique et Industrielle by Ques Hiedle Complete to date Paris

Transactions of the Academy of Sciences of St Louis no.

Memoirs of the Academy of Sciences of St. Petersburg
Complete Set

Journal fur Chemie & Physik by Schweigger

The Proceedings of the German Ass'n for the advancement of Science Complete Set

The Schweizerische Polytechnische Zeitschrift by Bolley & Kramer (or Krammer)

Neue Denkschriften der allgemeinen Schweizerischen Gesellschaft fur die gesammten Naturwissenschaften Neuchatel Zurich

Proceedings of the Academy of Sciences of Lima Peru

Proceedings of the South Wales Institute of Civil Engineers published at Merthyr Tydfil

Kongliga Svenska Vitenskaps Akademiens Handlingar Stockholm

Sturgeons Annals of Electricity London

Electrical Magazine Chas Walker London

Quarterly Papers on Engineering by John Weale. London

9.

Proceedings of the Geological and Polytechnic Society of West Riding of Yorkshire Eng. Pub at Leeds

The Jarbuch of the Polytechnique Institut of Vienna by J Prechtl

Sitzungsberichte der Mathematisch-naturwissenschaftlichen Classe der Kaiserlichen Akademie der Wissenschaften Vienna

Memoirs of the Academy of Sciences Ax

Bulletin Telegraphics of Italy Pub at Florence

Repertorium fur Experimental Physik by Carl from commencement up to year 1850 - Have taken it from that date.

Civil Engineer & Architect Journal of London

Trans of the Conn Academy of Sciences New Haven

Electric Telegraph Review London 2 Vols

Il Politechnico of Milan

Journal of Physik by d'Almeida Paris

10

The Annales Telegraph went into the Journal Telegraphique and publication office changed from Paris to Berne

Proceedings of the Institute of Mechanical Engineers of Birmingham

The Mining & Smelting magazine by H. C. Salom London

A full copy of Nature from commencement to 1880

A full copy of La Nature (Paris) from commencement to present date.

Trans of the Tyne Chemical Soc — England

Popular Science Review James Thomson London

Revista de Telegrafos Madrid full set

Revue des cours scientifiques de la France et de la Etranger by Yung & Alglan Paris.

The Telegraph Journal and Electric Review London
You promised to get me a full set but have failed thus far —
Proceedings of the Scientific Assn of Trinidad
Proceedings of the Wisconsin Academy of Sciences Madison Wis

Very truly T. A. Edison

Aug 6

E Speer Esq
NY

Dear Sir:

Is a supplement to the enclosed. Will you please make enquiry of your correspondents as to prices, completeness and conditions, of the periodicals and magazines mentioned and let me know their replies at your earliest convenience

Very truly
J. H. Ellison

Aug 9

E W Bennett

Dear

I have the drawings for the following caveats please send me the specifications of same
No. 82. 83. 85. 88. 89
want specifications and drawings for following caveats 80. 81. 84. 91
want drawings and specifications in full for the following cases
131. 134. 136 137. 141. 145 148. 149
154. 155. 156. 157 159. 162 163. 164
167. 168 169. 170. 171 172. 173. 174
176. 178. 179 180. 185. 186. 187
I want copy of all these cases ~~which~~ whether they are of any use or not as I am called upon every day for them and I want to be able to know all about them at a glance. charge them to J.A.E.
Yours Wm Barnes

Aug 7

W H Potter

Dear Sir

Regarding

Heat & moisture third will be no difficulty as our bolt is so thoroughly insulated

The Dynamo 600 revolutions per minute to mechanism which would serve to give twelve revolutions per minute bottom as a first as we could think of

We have ready a worm & wheel through which about 25 to 1 per end of power is lost. but we now have a device by which the Dynamo may run 600 per min. while the pumping mechanism shall work out but 12 and accomplish the result by mechanism which has only the friction due to a couple of

in other words you can duplicate the surface station at the 3000 feet level either with a small or large plant. The dynamo method is an especially convenient one when increased power is desired; when you go lower and lower you can add dynamos to the pumping and hoisting shafts as required.

The other plan would be to place the hoisting dynamo and mechanism at the 3000 foot level and put a dynamo and pump combined every 200 feet downward one pumping into the tank of the other. The action of a dynamo machine is exactly analogous and similar that of an Engine with an armature and its variables cut off on a base of 9 feet long & broad is placed an engine & dynamo combined, as one mechanism. The Piston rod of the Engine is connected to the shaft of the dynamo - the bobbin of which acts as a fly wheel. The Engine (Porter Allen) makes 600 revolutions per minute. when no other dynamo is connected with this combination, The Engine of course cuts off at almost nothing and all the power lost is that due to the friction of the Engine the dynamo bobbin and 45.000 foot pounds in the field magnet and about 80.000 foot pounds in the magnetic change of the Iron during the rotating of the bobbin, total about 5½ h. p. the capacity

thousand dollars:
installation does not include
as you probably have extra
freight on apparatus
N. York. or labor of setting
up. Reproduction of steam dynamo
more than 3 p.c. on dynamo
level with pump mechanism
reproduction about 2 p.c.
cost be reduced into nearly
proportion to the horse power
less than 100 h.p.
prices may scare you out of
motion. but if you take into
consideration the fact that you
deliver this power easily
cable. add and take from it
time to time. get each h.p.
for 3½ to 3¾ lbs coal or wood
equivalent per hour per h.p. delivered

times beyond the breaking strain of the wire conveying it of the same wire to be used to convey by the movement over pulleys horizontally. The electrical system as developed here is very reliable and does not require an "Electrician" to work the system but can be attended to by any Steam Engineer or fireman. over 120 h.p. dynamo and Engine combined will deliver 100 h.p. at the 3000 foot level for 3½ to 3¾ lbs of coal per h.p. per hour for the 100. This amount of coal making up all losses. I will give you a rough calculation of generating conveying and reproducing 1000 h.p. at the 3000 feet level. based on actual cost no royalties.

T

8

Dynamo doing no work would not draw on the Engine although both were on the same wire. The whole thing in a nut shell is that we turn mass motion of the steam Engine into molecular motion (electricity) and then back into mass motion (rotation of dynamo mechanism) and in so doing we of course lose by the necessary frictions of the translating mechanism but we have the great advantage that while it might be commercially and mechanically impractical to give a mass movement to a large wire rope 10 miles long to convey power and reproduce it at the distance it is perfectly possible commercially and mechanically to substitute in place of a movement of the whole mass of a metallic rope 10 miles long a movement of its molecules throughout the 10 miles.

The larger the wire or rod the worse it would be for transmission by moving the whole mass while the larger it is the easier it becomes to transmit by the movement of the molecules. The losses even at comparatively short distances between transmitting a given power by the movement of a wire rope or the stoppage of the rope and the translation of the power into electricity and passing it through the rope are widely apart. It is possible by molecular transmission to convey a power [illegible]

series of pumps below!
What are the sizes and specialities
of pump rods used at the mines.
Could you send us any old drawing
of your mine or any [illegible]
so that we can get out of the
[illegible] of conjecture regarding
your methods –

Very truly

Thomas A. Edison

the small depreciation. etc I
think you will find it to be the
cheapest and most reliable method
that is known
I would like to ask you a few
questions
what size plants. of ~~what condition~~
and how many in station for 200
foot lift are used at present at the
mine and their capacity!
How much water per minute
to be ~~raised~~ raised 200 ft high!
what size and kind of pipe is
used.
what space is station occupied
at present for pumps and tank
or reservoir.
what space can be given to local
dynamo - ~~motor~~ to move machine
to operate pumps direct or for

Aug 10th

Corning Glass Works!

Gents!

Please inform me the time I may expect the glass; my factory is ready for work and needs the glass immediately.

Please answer and you will greatly oblige

Very Truly

[illegible]

[illegible]

Menlo Park 8. 9. 1880

J. S. Chapter Esq

Dear Sir

It is very difficult in the present state of the experiment to give the cost of apparatus but I can probably give you an estimate that will approach closely

Cost in plant for one boat with capacity and equipment for 75 lights
~~Engine & Electric machine complete~~

taking steam from your boiler		1500.00
100 Lamps of which 25 are extra		60.00
Sockets		75.00
wires to all parts of boat		200.00
Labor running wires. setting engine		50.00
Total plant		2185.00
depreciation engine etc 4%	72.00	
" Lamps	*80.00	
*yearly each lamp lasts 6 month		
Dust at 7% say	152.00	
	$304.00	

If running 8 hours daily 60 lights 10 horse power requires 35 lbs coal per hour or 280 lbs coal for 8 hours or 365 days in

the year requires 45½ tons at $2.00
(as I understand you use pea & dust
coal) per ton 91.00
The oil and waste may be estima-
ted for the year at 8.00
depreciation interest etc 304.00
Total cost per year $ 403.00

In comparison with gas:
Each burner must burn if it
gives a light equal to the Electric

Light 5 feet from burner that is
for 3 hours 2400 feet for 24 5
days 57600 feet. this at 75 cents
per thousand amounts to 657.00
Cost on tank & appliances costing
$16000. at 7% 112.00
Leakage 10% 1152 feet @ 75¢ per m 77.00
$ 567.00

Cost of lighting lighting 64.00
Electric 465.00
Gain in favor of Electric lighting $464.00

The advantages of the Electric Light are.

1 That it is absolutely steady.
2 That nothing can be set on fire by it.
3 That it is not affected by wind.
4 That it gives no trouble.
5 That it gives a pure monochromic light.
6 That it makes no inovation but imitates exactly one gas jet.

In respect to the large lights of several hundred candle power. they are expensive

were used on the premises for 1000 ft would have to be found.
(In fact, $150. per year royalty would be required by our Company) this added to the cost would still leave $314. yearly as the saving effected by the Electric Light to pay nothing of the housing nuisance and the advantages over gas.

Yours truly
Thomas A. Edison.

require a man to attend them. are unsuitable. and as the carbon is consumed they disintegrate and throw white hot carbon particles around so that pans were necessary to prevent the places where they are used from being set on fire. In these estimates I have not allowed anything for royalty to the Edison Electric Light Company. but this will be reasonable and will not materially affect the price. I do not think it will bring the prices of the light equal to that given by 1000 feet of gas above $1.00 per thousand which may be considered reasonable. when if City gas

Aug 10

Editor Bellman Journal
Dear Sir
Gents

we received the Journal's all right with the exception of Vol 34 first series please attend to this

Yours truly
T A Edison
Carman

Aug 10

Norfolk Tube Co
Gents

do you have any on hand 3 ft long and one inch diameter or can you get it and at what price can you supply it by the cwt

Very truly
T A Edison
Carman

C

Aug 13th

H. L. Russell Esq
Boston

Dear Sir:

Your favor of the 10th is just at hand. The Edison Telephone Co of Europe Limited have filed patents in Russia Italy Spain Portugal Austria Belgium & Denmark. In Germany the patents have been hanging fire since 1877

Very truly
T. A. Edison

Aug 17th 80

C 2

To Biedermann Esq
Geneva

Mr. Dear Sir:

Your esteemed favor of July 25th was duly received. It is quite impossible for me to comply with your request to send one of my men. The light is a vast system, a new art and industry and before we can get things ready we shall have to arrange for the manufacture of our machinery. We are establishing the nucleus of a Lamp factory here with a daily capacity of 1000 lamps. This factory alone has cost many thousands of dollars and months of labor in inventing automatic apparatus for cheapening the lamps and working people had to be taught to work the apparatus.

It would be impossible to establish such a factory in Switzerland soon. The 2 or 3 years, hence everybody must depend on us here for their lamps for a while.

Regarding the Engine. Our Dynamo machine is eight times larger and more powerful than any hitherto built. It works direct by an Engine of special construction making 60 strokes per minute. No belts or gears are used. To build this class of Engine and Dynamo, over $150 000 have been invested in Philadelphia. The Inventor of the Engine has spent 20 years in perfecting his Engine to obtain such high speeds with economy and reliability, he has trained workmen etc so you see it would be impossible to make the steam Dynamos in Switzerland or in any other country for some time, for the Establishing of

S

of the Lighting of, say Geneva, all machinery must be sent from here with an Expert thoroughly capable of superintending the erection of the plant for lighting 5 or more square miles of a city.

We are perfecting our arrangements here for the manufacture of all apparatus on a large scale and will keep you posted regarding it and when we shall be able to take an order for one station lighting ½ a mile square in Geneva or elsewhere.

Yours very truly
Thomas A Edison
per G

(C)

Menlo Park, April 29, 1911

A. G. Renshaw,
Trustee in the matter
-of-
The Edison reversionery interest
in the Edison Telephone of London
(Limited)

Dear Sir:

Referring to the deed of trust recently sent you in connection with the above, I hereby request that you issue certificates of interest in the same in the following names and amounts:

Thomas Alva Edison - Nineteen-fortieths
George Edward Emmott - Nineteen-fortieths
Edward Hibbard Johnson, two-fortieths

Yours truly
Thomas Alva Edison

Aug 24

My Dear Husbands.

You must not blame me for not answering your letters, as you well know, that I have not a moment to spare. You may however expect a detailed letter from me regarding my Ore Milling Process and the light in a short time. I am gratified at your great success with the Telephone. Cleared cortes tomorrow regarding Co affairs.

Yours Truly

Thomas A Edison

Aug 24

Prof H A Rowland
Balto Md

Dear Sir

Did you receive my last letter, addressed I think to Keene Valley? We are ready to go ahead with the patent and are waiting for the necessary papers. Please reply soon as convenient.

Very truly Yours
T. A. Edison

(C)

Menlo Park N J Aug 26.00

Messrs Parker Gilfoyle
New York

Gentlemen:

Please send soon as possible,

2 doz pints Claret
1 Gal Sherry
1 Gal Port
Two quart bottles Bourbon Whiskey
5 lbs Almonds (paper shell)
5 " Pecan nuts
5 " Eng walnuts
1/2 doz bottles Hub Punch
5 lbs Eng breakfast tea
5 " Mixd Oolong & Japan
5 " Moca & Java Coffee (mixed)
1 doz box sardines
1/2 " bottles Gherkins
1 " Cans string beans
5 lbs fancy crackers
10 qts white beans
1 doz cans Mushrooms
2 Pine apple Cheese
3 smoked tongues
3 Hams (lean)
6 Cans Chicken (in jelly)
3 large oval cans Eng plum pudding
10 lbs white grapes
1 doz boxes black grapes

2

1 doz pkgs Smiths Borax
1 " " Cocoanut
1 " 1 lb cans Royal baking powder
1 " bottles Olives
1 " pkgs Babbits washing powder
1 box Milk Crackers
1 " Com. Brown soap
5 lbs sauce
5 " Hominy
5 " dried Currants
8 " Citron
6 doz Lemons
1 " Oranges

Very truly
T. A. Edison
—G—

Aug 27th

Combination Gas Mach Co
Lento

We received your machine to day
also your letter and pictures.
we will follow your instructions
punctual and if you are sure that
the machine work all right if
all these points are carefully observed
we fee as if we could get it to work
without going into the expense
of having one of your men coming
Regarding Rule 4(2) for gasfitters
I have to ask in what case is it
necessary to put in Alcohol & The
Location of the machine is on a side
hill 65 feet away from the Building
having about 6 feet rise to the building
ground is soft shell rock shall make pit
9 feet deep according to your letter. Have
you anything to suggest

Sincerely
T. A. Edison

Aug 26

J. W. Serrell Esq

Dear Sir

As we now have the cases fairly well under way I would like to arrange the lectures - I should like full particulars with dates in all of them Enclosed you will find a list of all I have and would like you to send me the balance from the beginning

Very truly
T A Edison
Commr

I have the following complete

80. 81. 82. 83. 84. 85. 87. 88. 89. 90. 91.

Specifications but no drawings
75. 76. 86. 92. 93. 94

Please let me know your first and last number and date

Yours
W. Harman

Aug. 28th

Wm. H. Morris & Co.
Dear Sirs,
We are going to try a new arrangement of winding the armatures which we think will greatly increase the safety of the machine from crosses in the coils. As the plan if successful may call for a modification of the present general plans as regards space I will say not to go on with the pole plate until you hear from me. This will however in no way affect the progress of the engine construction.

Yours truly,
C. L. Clarke.

Aug 28th

W. F. Cutler Esq
Havana

Dear Sir: Will you please ascertain and inform me if fishing pole Cane or bamboo grows in Cuba what part and what the largest size who can I address in Havana to obtain a sample with the idea of obtaining a shipment per steamer if bamboo is satisfactory We need many tons of it and will pay a good price if can get the right quality

Very truly
T. A. Edison
per G.

Aug 28

J. M. Burrell Esq

Dear Sir

Yours of 27 received in regard to the Kerrison Empson application — Mr Wilber informed us some time ago that he had sent these papers and I supposed he did so on my note. he must be here on wednesday and I will see upon it and let you know immediately

Very truly
J. A. Edson
Chairman

Aug 3rd

U.S. Consul
Pernambuco

Dear Sir:

Would you be so kind as to inform me if Cane or bamboo grows in your vicinity, the smaller variety of which is used for fishing poles and canes in the U.S. If so to what extent and size does it grow? I should very much like to have the address of a person or firm with whom I might obtain samples and if satisfactory a quantity of the cane. That which I use at present comes from Japan and its high price renders it almost prohibitory. An early reply will be appreciated.

Very truly
T. A. Edison

— 9 —

Aug 3rd

U.S. Consul
Porto Rico

Dear Sir:

Would you be so kind as to inform me if Cane or bamboo grows in your vicinity, the smaller variety of which is used for fishing poles and canes in the U.S. If so to what extent and what size does it grow? I should very much like to have the address of a person or firm with whom I might obtain samples and if satisfactory a quantity of the cane. That which I use now comes from Japan and its high price renders it almost prohibitory. An early reply will be appreciated.

Very truly
T. A. Edison

— 9 —

Aug 30

U.S. Consul
Para

Dear Sir:

Would you be so kind as to inform me if cane or bamboo grows in your vicinity, the smaller variety of which is used for fishing polles and canes in the U.S. If so to what size and extent does it grow: I should very much like to have the address of a person or firm with whom I might obtain samples and if satisfactory a quantity of the cane. That which I now use comes from Japan and its high price renders it almost prohibitory - an early reply will be greatly appreciated

Very truly
T. A. Edison

— 4 —

Aug 30th

U.S. Consul
Port au Prince.

Dear Sir:

Will you be so kind as to inform me if there grows at or near Port au Prince cane or bamboo, the smaller variety of which is used for fishing polles and canes in this country. If so to what size and to what extent does it grow: I should like very much to have the address of a person or a firm with whom I might obtain samples and if satisfactory a quantity of the cane. That which I am now using comes from Japan but the price renders it almost prohibitory - An early reply will be appreciated

Very truly
T. A. Edison

— 4 —

Aug 30th

U.S. Consul
Kingston Jamaica

Dear Sir: Would you be so kind as to inform me if there grows in your vicinity Cane or bamboo the smaller kind of which is used in this Country for fishing poles and canes: If so to what size and extent does it grow: I should very much like to have the address of a person or firm with whom I might be able to obtain samples and if satisfactory a quantity. An early reply will be greatly appreciated

Very truly
T. A. Edison
—G—

Aug 30

U.S. Consul
Panama

Dear Sir: Would you be so kind as to inform me if there grows at or near Panama Cane or bamboo the smaller variety of which is used for fishing poles and canes in the U.S.: If so to what size and extent does it grow: I should like very much to obtain the address of a person or firm with whom I might be able to obtain samples and if satisfactory a quantity of the cane. An early reply will be greatly appreciated

Very truly
T. A. Edison
—G—

Sept 3d

Albert Hatcaid Esq
Dear Sir
Will pay him $15.00 per week to start on and will pay him more if his work proves to be worth more If he is willing ask him to come immediately

T. A. Edison

Sept 3d

S Huntington Esq
Dear Sir
Yours of Aug 31st received In answer would say that we received drawings for this car bearing through Mr J Seymour and are fitting out one of our cars with them now will let him know the result when we have tried it

Very truly
T. A. Edison

Sept 8

L. W. Serrell Esq
New York

Dear Sir:

Your favor of the 7th regarding the 5th Patent on Autotrocan Pat on Autographic Printing is first at hand. I do not wish to pay it.

Very truly
T. A. Edison
by

Copy

New York July 31. 80

T. A. Edison Esq.
Menlo Park N.J.

Dear Sir:

Your communication of 29th instant about Australian Telephone Pts received.

The papers were prepared complete for Telephone patents in New Zealand, Victoria, New South Wales, Queensland, and South Australia and were sent to Mr. R. Wells the agent or representative of the W.E. Mfg Co and Co. paid the expenses. Should you require further particulars please advise

Yours truly
(signed) L. W. Serrell

Col G. E. Gouraud
London

Dear Sir:

I send herewith a copy of a letter from Serrell for your information.

Very truly
T. A. Edison

(C)

Apr. 9th

(C)

Sep 11

John H Harjes Esq
My Dear Sir

According to the terms of the original contract between myself Mr Puskas and Mr Bailey our respective shares in the French Telephone business were one third each. This basis has never been changed

Very truly yours

Thos A Edison

Sept 15th

John G. Eggert Esq.
Dear Sir
Please send us the following order as soon as possible.
(10) ten bushels of oats
(5) five " " of feed
Very truly
T A Edison
R

Sept 15th

D. Van Nostrand Esq.
Dear Sir
We send you by Express the following list of books

Phenomena of Friction and Lubrication
Ure's Dictionary Vol 1.2.3.4.
Roscoe and Schorlemmer Treatise on Chemistry Vol 1 and Vol 2 part 1.
Wolff - Practical Chemistry Manual
W Crookes select method in Chemical analysis.
Very truly
T A Edison
R

P.S. Are Hoff's and Kolbe's chemistries complete?

Sep 16th

D. Van Nostrand Esq.

Dear Sir:

I hereby notify you that I shall return, by express, two (2) books. The one titled "British Ulf's Industries", has become transposed while binding and therefore wish it to be exchanged; and the book on Botany, I have in the English language and do not require this one. By giving me credit for these, you will greatly oblige.

Very truly
Thos. A. Edison
E. B.

Sept 20

My Dear Senator

I am very desirous of obtaining a complete set of Clarence King's Geological Exploration of the 40th Parallel (6 Volumes 2 atlas) Can you obtain it for me from Washington? If so I shall feel very much obliged

Very truly Yours

Thomas A. Edison

To Senator McPherson.

(C)

Sept 20

My Dr. U.S.

Edison wants to get a Catalogue of the Patent Office Library they say they are very difficult to get but I told him you have special facilities & he asks me to write you & see if you can do it

Yours

E. Johnson

Sept 20th

Messrs Mitchell & Vance

Gentlemen

In designing my tubular attachments for ~~the~~ chandeliers, & carrying the electric light wires I find it necessary to bend brass tubing in various shapes. Would you be good enough to inform me what the process for so doing is. My trouble is, of course, in getting sharp bends in the tube. By giving me a few hints on this subject you will greatly oblige

Mr Edison & yours truly

E. H. Johnson

Sept 21st

L. W. Serrill Esq
New York

Dear Sir:

Referring to the translated Spanish papers which you sent to me two weeks, will the fees be paid in time? I understand the patents would expire unless the fees were paid before Oct 24th. You can probably telegraph to have it done in time or have you already attended to it?

Very truly
T. A. Edison

Sept 27

L. W. Serrell Esq
NY

Dear Sir: Your favor of the 30th (?) inst is just at hand. Your Paris agents action in the matter of the Neutrein Pat for Elec light meets my approval so long as the expenses are so light. Let them continue to keep the patent alive.

Very truly
T. A. Edison
Esq

(1) Sept 27

Dear Sir: Your favor of the 18th of Sept was duly rec'd. I gave orders when the Telephones were shipped to have instructions accompany them but in some way this was neglected. I send herewith a diagram which I think will be all that is required.

Very truly
T. A. Edison
Esq

Sr Don Leopoldo Carvajal
Havana

4387

Sep 25th

C. E. Speirs:
9 Jane Street – New York

Dear Sir:

I return by express to-night one volume of "Jahres-Bericht" for 1877 on account of your sending me two of the same. Please credit me for the above and you will greatly oblige

Very truly
Thos. A. Edison
E.B

Sep 25th

Chas Pratt & Co:
Gents:

Please send ten (10) barrels of 88° gasolene instead of five (5) barrels as was in yesterday's order.

Very truly
Thos. A. Edison
E.B

Sep 28th

Mess. Babcock & Wilcox:

Gents:

Please favor us with (Detail Estimates) to serve in estimates for our various plans.

Two boilers as planned by you, to go inside of 21 ft. front, 9 tiers of tubes, complete.

Also two of the same with Economizer complete, erected in New York on foundation furnished.

Steam pipes to engines, blow pipes, blowers, pumps, elevators, coal-bunkers and stacks to be estimated all separately.

Very truly
T. A. Edison
E. B

Oct 1st

T. W. Serrell Esq
New York

Dear Sir:

Referring to yours of the 24th ult relative to Chinnock & Short matters I wish to say in regard to the Pat office decision in the Short interference I want to make an appeal and have the matter carried to a higher court.

Very truly,
T. A. Edison
cy

Oct 1st

E. S. Gifford Esq
Indianapolis Ind.

Dear Sir:

Will you kindly inform me whether you did not make an assignment of the device that Nicholson said he invented to Jay Gould & greatly oblige

Very truly
T. A. Edison
cy

Oct 1st

Messrs Babbitt & Chauncey
New York

Gentlemen: Will you kindly ask your correspondents on the West Coast of South America to send a sample of the different varieties of dry bamboos growing in their vicinity. The samples should be about 3 inches long and an inch and a half to 2 inches in diameter.

It grows in nearly every country in South America and also quite extensively in the Islands of the Pacific.

Very truly
T. A. Edison
'9

Oct 1st

L. W. Serrell Esq
NY

Dear Sir: Referring to yours of the 24th ult regarding the Nicholson matter - I am endeavoring to get information and hope to obtain it soon. When it comes to hand will notify you.

Very truly
T. A. Edison
'9

Orig.

written from dictation

Friend Gould

Please see if you have not an assignment of an invention from Ogra T. Gilliland of something in dibley or quadruplex. It is not on file in Patent Office and I am almost sure I procured such an assignment from him to you which I gave you. You had better put it on file. I should like a copy of it.

Very truly
T. A. Edison
by —

Oct 5 (C)

Thirty cents a day. Of course you can judge if parties need a hoist. =

Yours &c
Wm J. Hammer,
for T. A. E.

Mr Jas D. Russell.
Dear Sir

Mr Edison desires that the no of kerosene lamps be entered in the "Hoist" that they be counted as you would gas jets, only mark kerosene and say if they have globes, and also if they are placed on gas chandeliers.

Also get as near as possible the number of gas jets or liv only burned between the hours of 5 and 6 P.M. Winter & Summer - the winter particularly.

Also if parties have no elevator or hoist, if they would like one. If they could get the power [illegible] by five (5) o

Oct 5th

(C)

John Michels Esq
NY

Dear Sir: In the last issue of Science (Oct 2d) I notice a great deal of space given to Wiesendanger. Now I don't suppose you are aware of it but in Europe Wiesendanger is looked upon as little less than an idiot and such stuff as the article referred to is nothing more nor less than a disgrace to a scientific paper. If such a thing is possible I would like to see the proofs of what is to appear in Science before the paper is published and thereby avoid as much as possible that which would be detrimental to its interests.

Very truly
T. A. Edison
—G—

Oct 6th.

The Combination Gas Machine Co
Detroit - Mich.

Gentlemen:

This morning the gas machine was started. The pump makes considerable noise due to air bubbles; the water goes up and down in the gauge about 3/8 inch. The pressure on the governor is very intermittent, which makes the value vibrate. The gas however seems to burn satisfactory. If you can explain, or if you think that something is wrong please give information and you will greatly oblige

Very truly
Thos A. Edison
E.B

Oct 6th.

Chas Pratt Esq.
Dear Sir.

Please send fifteen barrels of 88° gasolene instead of ten as in yesterday's order

Very truly
Thos A Edison
E.B

Aug 19th

Secretary Morse Esq
Harlem Library
N.Y.

Dear Sir,

Having seen your new style of "Muse" for duplicating copies on my principle of "Autographic Printing", I endorse same as a good thing and authorize you to put on them "Edisons patent Aug 8 1876" over your own name and patent of later date

Respectfully yours

Thomas A. Edison

Oct 19th
U.S.A.

C

Dear Sir:

Your favor of the 8th was duly received. From present appearances I think I can safely say that the Edison Electric Light Company of America will have one station established and in full working order lighting the lower portion of the City of New York before the first of may 1881.

The Edison Electric Light Co of Europe (office No 19 William Street N York City) have full control of the Electric Light so far as Europe is concerned. They will be prepared to negotiate about the first of January next.

Very truly
T. A. Edison
—9—

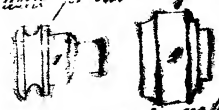
Vermeir Magin Esq
St Nicholas
Belgium

Oct 19th

Geo Merrill Esqr
Care Lowell & Sherman
Providence R.I.

My dear Sir

I send you by mail today the two pieces that are to be used for our 'Gauge' and the sketch we want to make a thorough test of them I wish you would make us (over) one thousand of No 1 and 1000 of No 2 — In these models I believe we have got exactly what I want and this number will determine that definitely. In making them in large quantities I know that some special tools will have to be built and as soon as you can conveniently I wish to have your opinion of



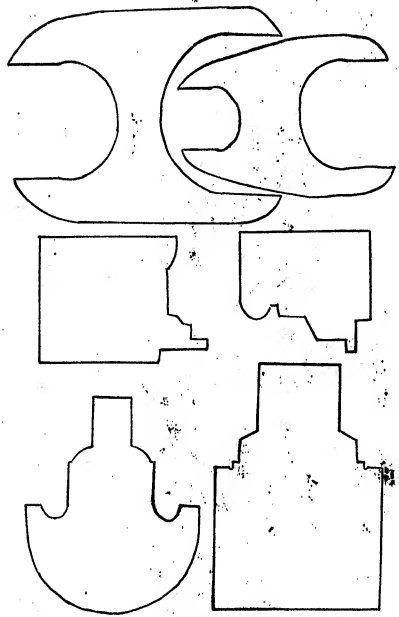
the probable cost and extent of manufacture at what price the parts can be made with the necessary tools and adapted to working them — You have work to charge I think providing you have it so well arranged so that you are at present making shoes from —

The gauges I shall send us a couple of days as I am making duplicates; I find that our tool has shrunk a little, so this body size we have made the gauge a little larger than the model —

I should like to see you if you are in town and if it can facilitate matters I would come and see you

Enclosed find a sketch of the gauges which I shall send to Providence

Very respectfully Your
Obt Svt
Elias Howe Jr



(C)

Oct 21st

T. de. Pebian Esq
New York

Dear Sir;

Your favor of the 16th was duly rec'd. The cost of a complete set of Quadruplex instruments at each Terminal is about $400. We will sell the patent in France or for the W'h Continent at a reasonable figure. I am not the sole owner but I venture to say that the patents for France and Belgium could be bought for ten thousand dollars ($10,000). The cost of sending two experts to put them up in different places would be $225 per month per man - travelling expenses extra.

Very truly
T. A. Edison

— 6 —

Oct 25th

W. H. Patton Esq
Virginia City,
Dear Sir,

Mr Edison requests me to write you that he has had working drawings made for you and would like to send them on but thinks it would be better to keep them until his test with the large dynamo (120 h.p.) is made here which will be in 5 or 6 weeks - from these tests absolute calculations can be made as to cost. While now there is liability of an error of from 3 to 5%.

Very truly
S. L. Griffin
Secy

Oct 25th

My dear Gouraud

Yours of the 21st rec. duly & in reply I beg to say I can see no objection for you to take out the patents in the countries named (France Belgium New Zealand Norway & England) and I give you 1/4 receipts for introducing the same when we are ready as I only get 1/2 that allows you receive 1/2 of mine.

Very truly
T. A. Edison
G.

Oct 25

L. W. Serrell Esq
N.Y.

Dear Sir:

Referring to yours of the 21st I do not talk about that in Sweden for magnets or dynamo machines & motors if there is any doubt about getting it for long terms.

Very truly
T. A. Edison
G.

Oct 26

Calvin Goddard Esq

Dear Sir.

The following are the names of persons owning stock with shares owned by each

Thos A Edison		
Chas Batchelor	112	[illegible]
F R Upton	36	[illegible]
Wm Carman	2	
Chas B Carman	5	
Frances Jehl	1	
E H Johnson	8	
John Kruesi	3	
Alice Bidwell	2	
Hatten Van Cleve	1	
Frank McLaughlin	8	

Thos A Edison

Oct. 27th

Wm H. Merrick, Esq.

Dear Sir,

From his visit to your works and conversation with your foreman, Mr. Batchelor gained the impression that the sole-plate and pillow-blocks are nearly completed and possibly can be shipped in a week. If this is so, if you can accommodate us by finishing these parts in to completion and can ship them to us on Tuesday, Nov. 3rd, ~~without fail~~ please let us know immediately and we will delay work upon the magnets so that they can be finished in place. If you cannot do this within that time we must resort to the old method of finishing in the lathe.

Every little delay is embarrassing to us as the time and we cannot wait long.

I cannot comprehend why there should be such an unexplained delay in the completion of the engine, neither could Mr. Batchelor judging from the superficial observations of a visit, excepting that no one seemed to be working upon the different parts, and to him it seemed a question of labor. As to that of course we cannot judge, and know not whether to ascribe it to that fact, or that some plans or proportioning of parts, which involve important principles essential to perfect success, may not be yet fully determined upon.

Be that as it may, it has caused great uneasiness

and irritation among the prominent members of the Electric Light Co. and a consequent state of nervousness and unrest on our part, placing us between two fires. Not only this, but the additional expense of delay amounts to thousands of dollars.

Highly as we endorse your engines, believing them to be the best for workmanship, speed, reliability, and economy, we are nevertheless fearful that after the trials we shall be left in the lurch, without engines or any hope of getting them, and for self-protection and to advance our interests that we shall have to adapt the various forms of direct and indirect engines

to our dynamos. I have with pleasure that you have ordered a large number of fine tools and have taken measures to obtain them with the least delay.

Will you please put all the pressure which you can possibly bring to bear towards completing this engine?

Every week delayed increases the difficulties.

Yours truly

Thos. A. Edison

Oct 24

G Woodward Esq

Dear Sir.

you will notice that I left Mrs Adams out of the list she has 26 shares. Mr Edison says Mr Bergman should also be protected one share which he got from Mr Laughlin Mr Batchelor says he has 112 shares in his and his wifes name and Mr Laughlin has one of his shares in Mr Laughlin name this caused the loss 8 shares in Mr Laughlin name — 112 in Batchelor and 1 share in Bergman. In regard to Mr Edison he says he has one ~~thousand~~ of 500 ~~shares~~ 72 of 5 shares and 348 in 140 in another the says you can see by the stubs.

Very truly

Yours Carman

Nov 1st

C. E. Speiss Esq
NY

Dear Sir; If you have made no arrangements to get the Linnean Society transactions I want to telegraph for it. Please reply

Very truly
T. A. Edison

(C)

Nov 4

W. J. Little Esq
Havana

Dear Sir:

Your kind favor of the 28th ult with enclosures is just at hand. I am greatly obliged to you for the kindness shown to poor Schneider. Your cable announcing his death was a great shock & surprise to us all. As far as I can learn he had no relatives in this country. I think he told me this himself, and I think he said that he had no near relatives living. He had been injured in a railroad accident and was laid up in a hospital at Newark N.J. some 6 weeks - at one time little hopes of his life being saved was entertained. I don't think he had been out of the hospital

money [illegible] of your Nam[illegible]
We all cautioned him about his [illegible]
and about drinking. Old doing [illegible]
chutes you say he was very [illegible]
willed and would always do in [illegible]
these respects about as he pleased [illegible]
and this I doubt not caused his [illegible]
death.

I have not yet determined what [illegible]
to do in regard to filling his [illegible]
place. I have a man now en route [illegible]
from San Fran for Japan to get [illegible]
Cuba and also have two parties [illegible]
engaged in South America so that I [illegible]
am pretty sure of getting an abundant [illegible]
supply soon.

I will remit the amount due you in a few days.

Very truly
T. A. Edison

Nov. 8th.

M. C. Bullock, Esq.

Dear Sir,

Through Mr. C. Goddard, Sec. of Edison Electric Light Co. I am informed that you have a high-speed engine which he understands possesses peculiar merits and might be adapted to running the dynamo-electric machines.

If you can give me information as to the type, whether horizontal or vertical, the range of power for which you construct them, the limit to the speed in revolutions to which you can attain, the form of governor and valve gear, and if automatic what would be the cheapest engine which you would make automatic? I would like particular information as to

C.

me of 120 H.P. In stating horse-power of any particular size please state at what boiler pressure and cut-off. What will you guaranty for economy, durability, and what approximately will be the cost per horse power for engine.

Any information, the more complete the better, I would like very much to have.

Yours truly,

C. L. Clarke.

P.S. How many engines have been already constructed and have any been severely tested and under what circumstances?

C. L. C.

(C)

Nov 8th

Messrs Babbit & Chauncey
New York

Gentlemen I am about sending an Agent to South America to procure samples of Bamboo or Cane. He will visit Para, Pernambuco, Bahia, Rio Janeiro & Buenos Ayres. I would consider it a special favor if you will give him letters of introduction to your correspondents in those places. His name is John. C. Brenner. Mr Brenner or some one from my works here will call on you for the letters.

Very truly Yours
T. A. Edison
A—

Nov 11th

Gentlemen;

Your kind favor of yesty is just at hand. The samples you refer to were duly received, but they are so green that it is difficult to say whether they will be suitable for our purpose. The gentleman who I propose sending is a first class botanist and has been all through South America. He will not only search for the proper kinds of bamboo but will also collect samples of all other classes of fibres which may be of use. I have to thank you for the aid you have already given me and for the tender of further assistance if necessary

Very truly yours

[illegible]

Messrs Mobbs & Chauncey
New York City

Nov. 17th

J. W. Thompson, Esq.
Buckeye Engine Co.
Salem, Ohio.

Dear Sir,

Your favor is at hand. In reply I will state that the bolts which are represented in the drawing of the dynamo are for securing the machine to a sole-plate of cast iron upon which the bed-plate of the engine also rests. When you were here we talked this matter over and, as you will recollect, the plan is to have a direct-acting engine, and to have both engine and dynamo upon one cast-iron sole-plate which shall be quite heavy and perfectly rigid, so that the machine be self-contained and not be affected by foundations or floors settling and getting out of alignment. As to the design of engine, that is left entirely to you, both in the designing and construction; subject of course to the terms of a contract, covering points relative to economy, performance, durability, duration of trial &c., which have yet to be drawn up by us when you are prepared to undertake the construction of the engine.

The nature of the agreement should be such as not to cover any details, but that the capability of the engine to fulfill certain [illegible] requirements may be [illegible]

Yours truly,
H. P. [illegible]

P. S.

The shaft must be continuous.

C. L. C.

Nov. 17

My dr Riff Serrell writes me that the Robertson case comes on soon & that my testimony will be taken Nov 26. He says "I have endeavoured to get a copy of your evidence in the U.S.P.O. W.O. but have not been able. Mr Riff no doubt can no doubt obtain a copy for you. Will you send to him & then stay on your Evidence so as to give your testimony."

Can you send me the Evidence by express in the meantime?

Very truly yrs
T. A. E.

Nov 17

L. W. Serrell Esq
NY

Dear Sir, I think you had better send a draughtsman here to make drawings of model Exhibit. I know no one here who I can use for this purpose.

Very truly
T. A. Edison

Nov. 17th

Mr W. L. Church,
New York,

Dear Sir,
Mr. Edison informs me that you were here today but in somewhat of a hurry and so I did not see you. As to that engine which you are to construct, there are certain details of the combination that I would like to talk over with you, and if you can come again or you can appoint any day, preferably afternoon, when I can meet you at your office in N. Y. please let me know. Yours truly,

C. L. Clarke.

We hope to have the engine in three weeks.

Yours
Emmery Tuty
P. S. Porter

Nov. 17th

Phas T. Porter, Esq.
Dear Sir,

I would like to know if any alteration in the dimension of cylinder or admission and exhaust pipes have been made since your original design was drawn of which we have the tracing?

This will determine some particulars in our settings.

We wish to lead your exhaust direct into a large Berryman Feed-water Heater which will show a decided gain in economy.

I presume that you have no objection to so doing, the aggregate area of the tubes being several times larger than the exhaust.

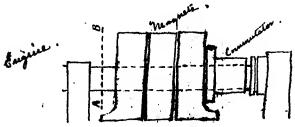
Mr. Edson gained the impression from Mr. Church of the Buckeye Co. that you have the impression the dynamo will not be ready for the engine for at least two months. Nearly all the hands in the machine shop are at work upon it and it is being brought very f... towards completion and will be so in much less than three weeks. Every part is here and most of them completed. The armature is in such a condition that the whole force can in a few days be put upon it and soon completed.

Nov. 185

Chas. T. Porter, Esq.

Dear Sir;

Will you please send him a gauge of the shaft between the inboard pillow block and face of



magnets as shown on line A B in above sketch. A collar is to be fastened to that part of the shaft, and it must be a keying fit.

Yours truly,

C. L. Clarke.

Nov 18

President Henry Morton
Hoboken N.J.

Dear Sir

Your kind favor of yesterday was duly rec'd. I am pleased that you have therefrom taken what has appeared in the newspapers, as correct as to what I have said on time. I know that the article referred to by you in the Sun was mixed, and I am probably as well acquainted regarding the unreliability of newspaper accounts as almost any other man. Of course I did not suppose the report of your lecture was correct in any particular.

Very truly yours
T. A. Edison
-9-

Nov. 19th

Chas. T. Porter, Esq.

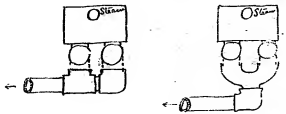
My dear Sir,

As the foundations for the pole-plate are approaching completion and we wish to put in the pipes and be ready for connecting when the engine is received I wish some information regarding details.

Will you send therefore a drawing of cylinder giving the details of the admission and exhaust pipes, with exact dimensions?

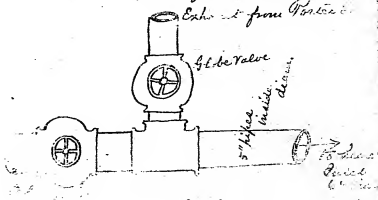
I give diagrams of connection of cylinder to exhaust pipe. Which do you prefer or have you some different plan?

Nov. 19th



In my last letter I stated that it is proposed to pass the exhaust through a Berryman Feed-Water Heater.

The proposed plan of connection is shown in diagram —



Nov. 19th

Have you a different plan to suggest? During a trial for economy the Brown Engine will not pass.

When the time comes we shall furnish us with an engineer. We would prefer you to do so, but if we have to find the engineer he must first pass your examination and be endorsed by you.

Yours very truly.

Chas L. Clarke.

Nov 19th

Chas Pratt & Co.

Gentlemen:

Please send me seven (7) barrels of 88° gravity gasoline by Monday, and you will greatly oblige

Very truly

T.A.Edison

Nov 19

My dear Roosevelt

Your two communications were duly rec'd. I consent to the transfer as suggested by you in your letter of yesterday.

Very truly yours
T. A. Edison

Nov 19

B. F. Fisher Esq
Phila Pa

Dear Sir; Your favor of the 16th was duly rec'd. I have never received any money from Mr Seyfert on the notes referred to. They were made for the benefit of the Automatic Telegraph Company (of which Mr Seyfert is a large stockholder) for the purpose of paying a debt due me from the Automatic Telegraph Co. I can do nothing about it.

Very truly yours
T. A. Edison

Exhibits sent to Sewell

15 152. 118. 117. 110. 90. 90 Photo lost 82 80 80

79 a Photo 49

14 169.

13 203. 202. 180 177. 177. 176. 175. 169. 168 167

166. 165 164 163 162 161 160 159 158 155

153 152. 151 150 149 148 147. 143. 141 140

139 135 134 133 132 131. 130 128 127

126 125 124 121 120 119. 117. 116 115. 114

112 110 109 106 105 104 103 102 100 99

98 96. 95 94 93 91. 90 89. 88 84

82 80 79 77 76 75 74. 73. 72 71

70 69. 68 67 65 64. 63 62 61 60

57 55 54 53 52. 50 48. 47 46 45

40. 43 41. 40 39 38 37 36 34 33

32 31 30 29 28 27 26 21 22 23

24 25 20 19 18 16 15 13 12 10

9 8 7 6 5 4 2 1

12 189. 186 185 184 182 181. 179. 178 177 176

175 174 173 171 168 167 166 164 163 162

161 160 159 154 152 151 148 147. 146 145

144 143. 142 138 136 135 133 132 131 129

127 124 123 121 119 116 115 113 111. 106

105 98 97 96 95 94 93 91 90 88

87 86 84 82 83 81 80 78 77 76

74 73 70 72 69 68 67. 66 65 62

12 28 27. 25. 24. 22 18. 15 14. 13 12. 11 10. 9
7. 3 1

11 201 200. 199 .98. 197 196 195. 192 191. 189
187. 186. 185. 184. 183 182 181 180 179. 178
177. 176 175 173. 172. 169 168. 167. 166 165
164. 163. 162. 161 160. 159. 158 157 .156. 155
154 153. 152 151. 150 149. 148. 147. 146 145
144 143 142 141 140 139. 137. 136 135 134
132. 130 128. 121 120. 116. 115. 114 113. 111
102 101 100. 99 95. 87 86 82 78. 76
71. 65 62 61 60 58 57 56 57½ 57¼
49 48 46 44 43 41 40 39 37 32
31 30 29 28 27 26 25. 23 22 21
20 19 18 17 16 15 14 10 9. 8
6 5

10 109 73 71. 71 Photo 58. 25 3. 104. 103. 102
101
9 22. 17. 10. 9. 8. 7. 6. ~~[illegible]~~
8 322. 321 320

Cat 141.777
Translation Reiss Telephone yellow cover
Carack #75
Photo Drawings Carack #74
Title Translation by [illegible] of Reiss Telephone

Drawing from case 130.
English Patent 2909
Photo from carvel 75
Photo — dated Oct 12. 76 signed J Adams
" " July 12 " Edison
Edison Exhibit opening Dingers Aug 1877
" " 54-12 additional Sketch made by Edison
" " magnetic telegraph Telephone
" " sheet & rubber tube transmitter
Journal Telegraph Jnice 1.1877

Edison Exhibits 101-10 102.10.103.10
104.10 — these where copied from
Experimental Researches Vol 1.

Copy of Part W Union Contract May 31. 78
" " " " Mar 22. 79

Mr Russell: this is a complete
list of all in that package

Very Truly
[illegible]

[illegible]

Packed in Boxes
and sent to Sewell

Edison Exhibit Instruments 104-11 X
Feb 17. 1877

" 3 spring
electrodes Oct 1877 X

Edison Exhibits loose diaphragm X
Sept 1877

Edison Exhibit diaphragm 17-13 X

Edison Exhibit Carbon Telephones from X

Edison's diaphragm 165-12 X

Edison's Exhibit spring Nov 1877 X

Edison's Miscel Telephone X
Sep 1877

Edison's Exhibit cup & carbon 112/11 X

Edison's Exhibit weight 112 11 X

Edison Exhibits springs 42-11 X

Edison Exhibit 4 Nov 1875 X

Edison Exhibit 4 1. Nov 1875 X

Edison Exhibit Telephone Relay 58/59 X

Edison Exhibit Motophone X Not Exh.

Edison Ex water. Telephone Ex X

Edison Ex Dust 28-11 X
" " 58-1/2
" " 61-1/2 all in pencil

Edison Ex Dust weights Electrode X

Edison Ex Dust 23-13 ~~28 Sept~~ Jan 17. 1877 X

Edison Ex Dust 38-13 Jan. 1877 X

Edison Ex Iron Sulph X

Edison Ex Iron Sulph Sphere X

Edison Ex Dust 103-13 X

Edison Ex Dust 117-13. Jan 19. 1877 X

Edison Ex. Quot 67-18 Nov 5. 1877 X

Edison Ex Quot 10-11 Nov 11. 1877 X

E Ex Quot 121-13 Nov 20 77 X

E. Ex Quot 100-11 X

Edison Ext Quot 112-18 Nov 16. 1877 X

Edison Ex Quot 149-13 Nov 26 77 X

Edison Ex Quot 130-11 X

Edison Ex Mg 3 tube X

Edison Ex. Mica diaphragm X

Edison Autocrucibly transmitter Dec. 877 X

Edison Ex B. Nov 1875 X

Edison Ex Carbon Rheostat X

Mr. Carman

This letter was not sent
I changed the operations
see next letter to Bissell
Nov 22 N. C.

L W Bissell Esq
Dear Sir
I have
sent to your address this
day one Box containing Exhibit
Instrument - one package
containing exhibits drawings
and one package containing
copies from papers and
other papers - by
Adams Express they will
probably reach you
tuesday morning

Yours truly
N. Corman

a list is contained in
each package with

N C

Nov 22

L W Sewell Esq
Dear Sir

We send by Adams Express to day one large Box containing Instrument Exhibits In the Box is a package of the Ex drawings you will find in opening the Box an envelope addressed to you which has a list of the exhibits Instruments the list of exhibit drawings is in the package — The copies from Public archives will be brought in this evening morning to you — I think I will be down on tuesday morning as I know just how they are packed and can check them as they are taken out Yours truly W Cannon

Nov 22d

L. S. Merrill Esq
New York

Dear Sir; I cannot reply to X. Q. Nos 170 & 171 at present but will do so at some future time and have the replies inserted in the dictionary & printed slips.

In answer to yours of the 19th I don't think I can get the Carbon Telephones but can bring witnesses to prove that they were put on the line.

Very truly
G. A. Gibson

Menlo Park N.J.
Nov. 22/80.

Prof. Geo. F. Barker.
My dear Prof.
I notice in last evenings
Herald that purports to
be an interview with you
& wherein you are made to
say some things concerning
my Electric Light work
which I cannot bring myself
to believe ever emanated from
you. Pray be good enough
to say if you even do such
as supplied the reporter
with a foundation upon
which he could build
such an interview
Very Truly Yours
Thos A Edison

(C)

Menlo Park N.J.
Nov 28th 1880

L. W. Serrell Esq
NY

Dear Sir;
The assignment of the Russian Telephone to James H Bunker as Trustee cannot be found. Mr Bunker says he never had it. Mr Edison says he never signed it. Will you please have another copy made and sent here at your earliest convenience

Very truly
S. L. Griffin

Nov 24

C

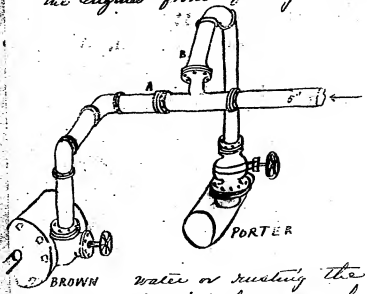
Friend Roland

I send you herewith a little item which shows the true Scientific spirit. The statements in it are generally absolutely false. Mapim is using my lamp, Coating carbon by the decomposition of hydro-carbon was tried in every conceivable form of manner by me last January. There is not the slightest difficulty in getting 500 600 Candles from a lamp if the carbon loop is coated with a sufficient thickness of deposited carbon but this reduces the resistance enormously. The whole subject was elaborately investigated by Berguerel many years ago and is to be found in an extensive paper in the Annales de Chemie & Physique. All the papers for your Dynamo machine are prepared and I have drawn up a Contract between us which will be submitted to you. The firm of Dyer & Wilber have the matter in charge. Mr Dyer has hunted up the precedents, canvassed the probabilities & believes he can get the patent allowed. If he will have the cooperation of the Western Union Telegph Co in the matter, I think Tuesday,

T. A. Edison

Nov. 26th

If you think there should be valves at A and B to prevent the engines from filling with



water or rusting the valves, furnish those also for a 5 inch pipe.

Yours
C. L. Clarke

Chas. T. Porter, Esq.
My dear Sir,
Will you please furnish the fittings for the exhaust pipes as per sketch which you sent;

1 — 5 inch double elbow.
1 — 5 inch tee curved outlet.
2 — 5 inch gate valves.
Also the necessary loose flanges threaded for 5 inch pipe and drilled for bolts, and the necessary bolts.
Also one tee with a curved outlet for a 5 inch steam pipe, the size of the outlet to fit the engine.

Nov 26

S L M Barlow Esq

Dear Sir

I have been informed by Mr Biedermann, that there is a company in formation which will produce Electric Cables in accordance with the Berthoud-Borel patent dated Nov. 2. 1880 numbered 233.970.

Having found these cables the best that I have seen until now and exactly suitable for all Electric purposes, and in particular for my use, I would be glad to enter into a contract for a large quantity of these Cables at a price of 20% below the selling prices Mr Biedermann has shown me on his plan and which are the prices at which these Cables are sold in Europe — Yours truly

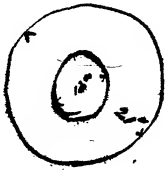
Dec 23

To the Executive Committee
of the Edison E. L. Co
New York

Gentlemen: I desire to obtain the services of a man for arranging, mapping and figuring out the main and subsidiary conductors for our first district in New York as well as for others and I have just been made acquainted with a person who will meet all the requirements of the case. He is a German electrician, a first class mathematician and understands the subject upon which I desire him to work. He has only been in this country ten days. He wants for his services two dollars per day. Will you authorize his engagement for the purpose mentioned? An early reply is desired.

Very truly
T. A. Edison
—y—

Dec. 65



Wm Lee Church, Esq.

My dear Sir,

The iron of the armature will weigh 2300 pounds and upon its face will be 270 lb. of copper.

The copper discs which go upon the sleeve at each end of the armature will weigh approximately 400 lb. each. There are two of them and they are of a uniform density from a diameter of 8 inches out to a diameter of 22 inches. The sketch will show the disposition of material in the armature.

Yours very truly-

C. L. Clarke.

Dec 10th

Sir

Your favor of the 4th Ult was duly rec'd. In my electric light system the design is to establish stations in cities & towns and supply the light one half mile in every direction from the Cent l station. This distance is the limit as far as Economy is concerned. When the conductors are carried beyond half a mile they must be increased in size and this renders it expensive. but where the motive power is water, and the expense nominal I see no reason why conductors of 4 or 5 miles in length cannot be used.

Very truly
T. A. Edison

Wm Preece Esq
Carlisle Eng

Dec. 14th

Chas. L. Porter, Esq.

My dear Sir,

We have been running for some time without a regular engineer but must now have one and as soon as possible. We would prefer to have one who you feel is capable of looking after your engine also. Will you please let me know immediately what you can do for us in this respect. Can you get us an engineer?

Yours truly,

Chas. L. Clarke.

Dec. 14th

J. C. Miller, Esq.

Dear Sir,

In answer to yours of the 24th ult. I will say that Mr. Edison has so much on hand to think of experimenting in any way with engines, they must be a proven fact before we can take hold of them.

I would advise you to go on with the engine as you have begun it, for its utility for driving a dynamo-machine can be proven easily enough, if it has merit.

Yours truly,

C. L. Clarke.

Nov 14

John Bullock Esq

Dear Sir,

Your favor of Nov 6th was duly rec'd. A machine costing $300. will pass through 250 tons of sand per day requiring one man and a pair of horses. The sand must be dry. It does not separate white quartz sand. The cheapness of the process depends upon the per centage of black sand.

Very truly
T. A. Edison
Esq

Dec 1st

My dr U.H.P. I think you are a little in error about my being engaged on the quad in Dec. Owing to the fact that I had no papers to refresh my memory in my preliminary statement I said I did it Dec but in my testimony I testified it was in Aug or Sept. Those fellows are trying to prevent me going back of my preliminary statement which was filed a year ago. Batch testifies that he helped me work the instrument in 1875. You probably did not read this testimony.

Please give Walters all the help you can at Patent Office in getting some broad claims allowed

Very truly
T. A. Edison
Esq

Dec 04

Mr D. H. H. P.

Referring to yours containing telegrams - The testimony being closed I will be brief. I think your testimony is a little off. Clinch was not with the crowd. Chent came over I think to see the Automatic & also to attend to some messenger boys clothing which was being made in Newark in Sept 1879. A short time after you brought Clinch & Chent over and I think Chandler also.

Very truly
T. A. Edison
-9-

Dec 04

Geo D Bancroft Esq
Boston

Dear Sir; Your favor of the 3rd was duly rec'd. I have no iridio-platinum left. The way I order it by telegraph. For instance I write a cable thus - "To Johnson Matthey & Co London. Ship oz ___ 10% platinum iridium Drexel Morgan." They have it generally on stock - you will get it in about 15 days after cabling

Very truly
T. A. Edison
-9-

Menlo Park Dec 15. 1880

Prof Wm Crookes

Dear Sir

(C)

I have now nearly completed works for a daily output of 1200 of my Carbon filament Lamps in high vacua, and am erecting other works which will have a daily capacity of 15000 lamps. It has occured to me that as you have a patent on your Radio-meter here that my works and yourself might derive a fair income from the sale of these instruments because our facilities here will permit of their manufacture at a price which will allow of their sale at 50 cents each or less which will so popularize them that the sales would be very large and permanent.

Please answer if you would make any arrangement with me for working the patent

Yours truly

Thomas A. Edison.

Dec 15th

(Rec'd)

L. P. Lowery Esq

Dear Sir;

Your letter of March 25th 1880 in which you stated the arrangements made by you on my behalf with Messrs Drexel Morgan & Co in respect to Portugal, New Zealand, New South Wales, Queensland and Victoria and with J. F. Navarro Esq in respect to Cuba, and with Messrs Fabbri and Chauncey in respect to India, was duly received at about the time of its date, and correctly states the arrangements to be taken as to the interests of Messrs Lowery, Green & Stone; and all the arrangements set forth are in accordance with my authority to you so far as the Countries mentioned are concerned.

I have not had it understood with both Drexel Morgan & Co. and Fabbri & Chauncey that they were to bear the expenses or provide persons or syndicates who would bear the expenses (if such a thing were necessary) to make one installation of a Station in each of the countries named that this was always my intention and supposition.

With this understanding I hereby ratify and approve the arrangements made by you and desire you to prepare proper assignments or other contracts carrying out the same.

Very soon after the receipt of your letter, I informed you in conversation of my approval of this world [illegible]

3 9. P. L.

which have prevented me from attending to such matters as promptly as I should otherwise have done.

Very truly

Thomas A. Edison

Dec. 17th

J. W. Thompson, Esq.
With Buckeye Engine Company.
Salem, Ohio.

Dear Sir,

Your favor of the 14th is at hand.

The outside dimensions of the sole-plate as shown in that plan and also the projecting drum and chest I agree to.

The sole-plate however requires an alteration in some details.

First — cut out the large vacant corner as I have indicated in black on the print.

Second — Make the facing strips, upon which the magnets rest, square. I think it would be well to make these facing strips 1" larger in dimension than the given sizes, to allow for any alteration due to casting. I prefer also that they do not conform in plan to that of the large but as I have said square.

Now as to the thickness of the ribs necessary for stability — Porter's sole-plate weighs 8400 lbs. and we think that it could be made lighter but it is not well to experiment on these now, suffice it to say that this sole-plate is amply rigid. The main height is, as in yours, 12". There are three ribs, 1 3/8" thick, at right-angles to the shaft, and four ribs parallel to the shaft of same thickness.

The side walls are of the same thickness and the cover

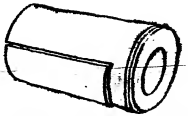
is 1½" thick. One of the ribs is directly under the shaft.

The sides have a flange inward of 5". If you make the sole-plate as I have described it will answer every purpose.

The clearance between the end of the sleeve and face of pillow is 3/8" at each end, and you have mistaken this for end play. 3/8" is the clearance, but the end play is but 1/16" each way from the central position, total 1/8".

The outboard pillow block need not be solid, although Potter has made his so.

I like your idea and suppose you intend it to be constructed thus —



The cap to be one piece with the grooved box and the bottom of box separate. Use your judgement in these points.

I see by your plan that you propose to turn the shaft down to 4" at the outboard bearing. That is an excellent idea, for in addition to the feather at the opposite end upon which the sleeve is pinned, you can key this outboard end. This key will have to be flush with the end of sleeve.

5

On the whole I like the general plan of the combination.

I send you the print to better illustrate some of my explanations. Will you please return it?

If your company is prepared to take up the contract which I drew up, the first thing in order will be a complete general drawing of the engine, minus details, with complete details of shaft, sheave, sole-plate, and as much of the dynamo as I have furnished, and embodying the alterations of which I write now. I am

Yours very truly

C. L. Clarke

(C)

Dec 17th

My Dear Lowrey Yours of yest'y is just at hand. It is a mistake about the 500 lamps being lighted Sunday night. I will let you know in time so that you can bring Mess'rs Navarro & Mora when I have a few hundred lamps going.

Very truly

(C)

[redacted]

(C)

Dec 17th

G. P. Lowrey Esq
Dear Sir;

I approve of your arrangements with Fabbri & Chauncey in respect to India and with Drexel Morgan & Co. with respect to Portugal, New Zealand, New South Wales, Queensland and Victoria; those firms to be guided by their own judgment in determining whether to make exhibitions of the Electric Light in those countries in the same manner as Drexel Morgan & Co may do under my contract with them in respect to Great Britain; and request you to prepare contracts to set forth more formally the agreement in respect to those countries.

Very truly

[redacted] Edison

I can come on immediately to answer matters which you contingent. The engine-house casting cannot be made until your satisfactorily.

While you have arrived as soon as possible, the sooner before freely concerning the proportions.

In this case we must be there on expense to pack matters.

Yours very truly,

B. F. Isherwood

Dec. 18/85

Wm. H. Merrick, Esq.,
City.

Dear Sir,

In figures of the engine of 35 H.P. the bore required, but we use the commencement, we have bore the Chain cylinder & all you attention of the out-side of the bore if you wish to keep the pump of cylinder to 30 in.

Mr. Thomas Shannon "Esq." of Rome, the engine attached in the order yesterday the Chain cylinder with 2 pumps the cylinder and all the pumps and it leave the bottom of the cylinder to be of the depth of which I have four inches of engine house.

Yours truly,

undertake as we can commit to have the dynamo casting made, also hence have the above made and sent to you and make the arc-plate casting and bilge-block casting, for the latter of which you have the patterns made and sent to you, all as a specific time. If you will contain an proposition to have this done on the 1st day of April, your part of the work being to take the engine, the cylinder, bilge-block and pre-plate, a carpenter can do quickly clean and

If Mr. Chain is of just the right size the pinion to make there the engine and dynamo there a little, I by the middle of April. Can you then fix contract for an engine like that at Hyde? I only want sufficient power for my purpose as 40-0 revolutions are an area contract the power of the a pole under and you immediately a working one with Bill's drawing one-half, if the system is not yet come make the drawing for the re-plate. The make that

Dec 20th

My Dear Sir:

Your favor is just at hand. I have turned the matter over to Messrs Upton & Clark who will figure it out. Whatever we agree to furnish will be at exact cost.

Sincerely Yours
T. A. Edison
-4-

Prof C. A. Young
Princeton
N.J.

Dec 20

Robert Hoe & Co

Gentlemen

Allow me to introduce to you Mr Stansbury Horce who has been perfecting an automatic Printing Press which I think will enable the Electric pen to find a good market among job printers, and newspaper offices generally throughout the Country. If you can find time to examine the working of the pen & press. I feel convinced that you can do something with it

Yours truly

Thomas A Edison

C

Dec 21st

Theo N. Vail Esq
Genl Mgr
Boston

Dear Sir:

Your favor of the 18th was duly recd. When you are in N York again please extend your visit to Menlo Park after you have seen the process of carbon button manufacture, if you then think the price (8¢ per 100) is excessive I will make a reduction. A carbon button is never broken in a properly constructed transmitter; they will last a century - putting a friable button in a crooked holder made by a botch is a guarantee that they will become broken -

Very truly
T. A. Edison

— 4 —

C

Dec. 21.

Mr. Calvin Goddard,
Sec. Edison Electric Light Co.
Dear Sir,
The contract as drawn between the Buckeye Engine Company, of the first part, and the Edison Electric Light Company, of the second part, is approved by me as covering all essentials points, and I do affirm that an engine which will fulfill the requirements as stated in this contract will prove in every way satisfactory for driving the Edison dynamo-electric machine.

Yours truly,
C. L. Clarke.

Approved —
T. A. Edison.

713

Dec 23

Mr. Rowe

Dear Sir:

I send you with this four lamps for the City of Rome. If Mr. Dennis wishes to try them he should be told that they are intended to give eight candles and no more, and should not be run above eight candles.

I have picked out two pairs one requiring slightly more current than the other, to spare the battery we take 55 volts and the other pair 50 volts. The lamps for the saloon will have a thicker carbon and give twice the light

Yours Truly

W. R. Clapton.

Dec. 23rd

W. H. Merrick, Esq.

My dear Sir:

I left the Park yesterday (Wednesday) morning and returning today found your favor, dated the 20th, postmarked the 21st at 12 M. By some mistake it was not delivered or did not arrive here as soon as it might, otherwise I should have been in to see you. As it is, I cannot come before the very first of next week when I will have a contract written with blanks to be filled out. We can then talk the matter over fully and see what can be done

to push this through.

Yours truly

P. L. Clarke

Dec 27 0

Edison Electric Light Co
Gent

Your letter of Dec 10 in regard to contract with the Buckeye Engine Co received - would say that the form of contract and specification made by Mr Clarke receives my full approval

Very truly

Thos A Edison

Dec. 30th

Mr. J. W. Thompson,
Mgr. Buckeye Engine Co.
Salem. Ohio.

Dear Sir,

Your letter and plans of the 24th inst. is at hand. Your plan of making the outboard pillow block and grooved tree is all right.

We prefer cap bolts before T slots by all means; and regarding the bolts which fasten the dynamo to the sole-plate not nice fit them and tap the holes. The altered dimensions of governor drum as mentioned in the same letter are acceptable, as also an outboard collar on the sleeve.

First-class machine steel ~~without sleeve~~ is good enough for the sleeve.

In the drawing which I return I have made and alteration by taking off another corner of the sole-plate. With this alteration the general plans, as mentioned in the contract, stand approved and the contract will be in force from Saturday Jan. 1, 1880 upon which date its covenants are agreed to. Yours truly

C. L. Clarke

36

Jan 1 1881

Fabbri & Chaume &
Gen

Yours of Dec
22 received in regard to B ambos
we received the shipment which
was sent from Japan but it
would not answer our purpose
I thank you very much for your
attention in this matter it being
a very great assistance to us
we still expect the samples from
Canada and hope they may
answer our purpose again
thanking you for your attention
I remain

Yours
T A Edison
Carmen

Jany 3d 1

L. W. Serrell Esq
N.Y.

Dear Sir;

Referring to your favor of the 18th ult. regarding the awarding of Spanish & American patents. Can you have them worked to such an extent as to comply with the law in the cases mentioned by you?

Very truly
T. A. Edison
—y—

Jany 3d

Dear Sir; Referring to your favor of Oct 20th I will give you two or three lamps if you will arrange & prepare to supply them with the proper Electromotive force. You can call & get them any time.

Very truly
T. A. Edison
—y

Prof M. C. Schuyler
N.Y.

1

Jany 3d

C

H. H. Eldred Esq
NY

Dear Sir;

Referring to the copy of Husband's letter dated Nov 16th 80 which I sent you Dec 16-1880 have you prepared the assignment mentioned by Husbands and what is the exact status of our affairs down there?

Very truly
T. A. Edison
—9—

C

Jany 3d, 1

Dear J. C. R.

Referring to yours of the 20th ult - I have an old perforator for 5 wire Romans - the instruments could be made by Bergmann. You had better come over & take off your coat, get things together if you mean big.

Yours truly
T. A. Edison
—9—

Jany 3 1

Dr A. C. Foote
Phila

Dr Sir
Referring to your note of Nov 22d 1850 you may send me History of Davenports Invention of the application of Electro Mag. to Machinery &c &c

Very Truly
T. A. Edison

© Jany 3d 1

Geo B Scott Esq
NY

Dear Sir; Your favor of Dec 20th was duly rec'd (1) The Orton house that was about 3½ months before Bentley.
(2) Think Bentley has them.
(3) You can probably get them from Bentley.
(4) It was about 2 weeks before Gray came on & set up his bi-poles in your office in which he used second Callan's cells
(5) Dont know where the instruments are.

Very truly
T. A. Edison

Dec 3rd

Simon B. Williams
Dear:

Your favor of Dec 9th has been rec'd & we for reply.

You can have your wires run at any time without disfigurement of your premises. We are making proper arrangement for so doing inasmuch as the large bulk of our work will be of this character.

You are correct in assuming that our Edison light is not

2

recovered by Companies with the common form wire on arc. Our Edison Lamp is only equal to a good Gas jet - & is quite as simple & manageable as a Gas jet.

Very Respectfully

[illegible]

(C) Jany 4. 1

James Arthur Esq

Dr Sir,

Your favor of the 4th ult was duly recd. The process you refer to is for working auriferous iron or black sand-dry. The machine costs £500 and the capacity is 150 tons daily at a cost of about £2 outside of cartage and the apparatus which works up to 90 % - Royalty charged is ½ pence per ton

Very truly

T. A. Edison

— 9 —

Jany 4 1

Geo F Swift Esq

N.Y.

(C)

Dear Sir;

Your favor of the 29th ult was duly recd. I have an Electric R.R. ¾ of a mile in length which was in operation here for several months - carried 40 passengers at the rate of 42 miles per hour.

I do not expect to commence work again on the R.R. until warm weathers. I have no agents or parties authorized to trade or negotiate for me.

Very truly

T. A. Edison

9

Jan 6 1

Chas F. Porter, Esq.

My dear Sir;

Will you please send two more pair valves for fire sick pipe with flanges and bolts for one end.

We think it best to put them in so as to effectually separate your engine from the Brewer engine and prevent condensed water from accumulating in the valves and pipes.

Can we not have the shaft now? This is the part most wanted now. I approve that like and hope it is paid before this.

Yours very truly.

P. L. Clarke.

Jany 8th 1

L. H. Serrell Esq
New York

Dear Sir: I wish to call your attention to Berliners Patent No 9,187 Claim No 6: This is ours and why should we not have an interference on it?

Very truly
T. A. Edison.

Dec. 10

Chas. T. Porter, Esq.
Dear Sir;
The foreman, Mr. Krusi, says that he would like to have the shafts as soon as possible; as the work is ready to assemble, and we do not want to proceed further with the construction of the propeller until the sleeves are put on the shafts.

Yours very truly,

Chas. L. Clarke.

Jan 11 1

O. Hayden

Dear Sir

Enclosed please find check to bal. of fellow receipt

Very truly
T. A. Edison
Barnum.

(C)

Jan 11 1

Saml P. Edison

How are you my dear wife. I have not heard from you in some time I wish you a Happy new year Enclosed - your son sends you check for $50. more as it $50 more you want if so write me and I will put it through — I beg to be excused for not sending this before — but you know how it is yourself Johnie sends you some papers

Very truly
Wm. Barnum
B. B.

Jany 11th 1 –

Dear Sir:

Referring to your favor of the 5th, upon thinking it over I find that I really know very little about the matter. If you could make it convenient to call on J. C. Reiff No 59 Broadway, N.Y. he can give you a full history of the note. Mr R was Secty of the Co that benefitted by the note. If it is not convenient for you to call on Mr Reiff I will try and get the information. How soon is it required?

Very truly
[illegible]

G. W. Groom Esq
Trenton
N.J.

Jan. 12.

Chas. T. Porter, Esq.

My dear Sir.

If you have no objection to so doing, would you please let me know the proportions which you use for Babbit Metal? We desire to try it in the small dynamo bearings in place of phosphor bronze.

Yours.

Yours very truly,

C. L. Clarke

Enclosure

Menlo Park N.J.
Jany 15 - 1881

L. W. Serrell Esq
New York

Dear Sir

At a meeting of the Edison Telephone of Europe Limited held yesterday afternoon I was directed by the Board to turn the enclosed papers over to you and request you to draw up the proper papers to enable the Company to receive from Mr Nottbeck the 50,000 francs referred to in the contract of Bankes & Nottbeck. I was not instructed as to the details of the subject matter of the papers which are to be drawn up but merely requested to ask you to have them made out as soon as possible.

Very truly
S. L. Griffin

Jan 15 1

C M Washburn

Dear Sir

I received from you in Dec a copy of The Peoples Library which I must say is a very valuable book and has a vast amount of reading matter which can be useful to most any one.

thanking you for yor kindness in remembering me

I remain

Very truly

7 A Edison

Conn

Jan. 17th

To Antoine Breguet, Esq.

My dear Sir,

I have received your favor of Dec. 10th and a letter dated Dec. 30 is now at hand. I have been, and am still, very busy; and, having had but few hours out of the day for sleep for some time, have not replied to the first letter, which is deserving of an answer completer and of some length.

I ask your indulgence a little longer and will briefly answer now the second. Mr. Edison wishes me to state that he intends to make quite a complete exhibit of his incandescent

previous to the electric light, and that he will do what lies within his power respecting the exhibition of the latter. If he can exhibit the locomotive and electric railway system he will do so but cannot promise definitely, neither as to the exhibition of the new one hundred horse-power dynamo-electric machine.

If the electric locomotive and large dynamo can be exhibited what facilities and room would there be in which to work them to the best advantage? What opportunity could be afforded for illumination

(C)

by the dynamo and what outside space for a railway for the former?

Mr. Edison hopes to do much, but the demand upon his time and energies is already excessive.

I remain,

Yours sincerely,

Charles J. Clarke.

Jan 18 1

F. Hamilton Rogers
Dear Sir

Your
received — would say
that as Parsons & Co
are nearly that will keep
your address on file and
if occasion arises will
let you know

Very truly
T A Edison
Carman

Jan 18 1

Owen a Hill
Dear Sir

I am pleased to
learn that you succeeded in making
the lamps work. If you require it
will send you other that may
perhaps be more suitable for
the Bottomless powers you have
these given the dr were only
8 to a dble power —
your letter was referred to the Co
in N.Y. and as they are getting to
new Offices it may have been overlooked
we want to cover the whole field.
Will it be an easy matter
to obtain municipal permission
to lay wires in the Street
please let us know

Very truly
T A Edison

Copy

Mar 15

Dear Sir

I have seriously considered your proposal of the 10th inst. (carry to Carbon Filament) on high resistance and one ~~[illegible]~~ ~~[illegible]~~ ~~[illegible]~~ a Daily Capacity of 10000 lamps. It has occurred to me that as you have a patent on your radiant lamp, that by a little and gradually increasing a fair income from the sale of these materials because our factories will present of their manufacture, as a point where we allow of their sale at a cost or less which will be profitable to them that the sales would be very large & permanent

Please answer if you would make any arrangement with me for working the patent

Very truly
T A Edison C

Jan 18

Mess Rhoades & Co
Cor

Enclosed please find copy of letter which was sent to Mr Banks he answered me referring to you — what if anything can be done in this matter between us

Very truly
T A Edison
Carman

818

Jan. 7 1

C. Currier Esq.
Dear Sir:

We send to day patterns. Please sort out piece as smooth & round as possible.

Very Truly
T. A. Edison

Jan 18 18

P. S. W. Wanamaker
Dear Sir

Yours received would say that the one missing lamp is still alive and a small portion only of the money in the treasury of the company is being used here to conduct experiments on perfecting means & methods of making low grade coal, of different varieties. One process has been completed and two other processes are nearly so. Patents have been taken out on them when I have made a complete exhibition of the light I shall then have time & place the missing lamp on a firm footing in the meantime building business & other processes which are coming & which will

Very truly yours

820

Jany 19 1

L. W. Serrell Esq
New York

Dear Sir: Who has the receipts for the Russian Telephone patent? Mr Bassler asked me yesterday to have you cable Brandon if necessary, to ascertain as the European Telephone Co are anxious to get the Hotchkiss matters settled as soon as possible.

Very truly
S. L. Griffin

Jany 19 1

Justus W Parker Esq
Dagsboro Del

Dr Sir: Your favor of the 12th rec'd duly

I can give you a situation at $25 per month.

Very truly
T. A. Edison

Jany 19 1

My dear Sir, Referring to yours of the 12th I shall fix a day as yet for the auditing matter.

Yours truly
T. A. Edison

(C)

Jany 19 1

Geo. M. Phelps Esq
N.Y.

Dear Sir

You favor of yesterday is just at hand. I have heard nothing from Bouquier for some time. He is right about the invoices. What is everybody's business is nobody's in this case. I will try & see that his wants are attended to.

Your bill against the C did not come up in our last meeting. I will try again to have action later next Monday and hope for success.

Very truly
S. L. Griffin

Jan. 20 1

Prof E. J. Cox
Bloomington, Indiana.

Dear Sir:

Your exceedingly interesting discussions on carbon under pressure, Proc. Am. Inst. Mining Eng. Vol. 1878-79-80, have just come to my attention. You conclude the article by promising to undertake further experiments, but as I do not find anything else on the subject from your pen in the Transactions up to the last published volume, I beg leave to enquire whether you have continued the investigations and when I may hope to expect to hear from them.

Yours, very respectfully,

Thomas A. Edison

Jan. 20th 1

Geo Place Mfg Agency
of Chicago

We are very ready to order a large plant from you. Cannot act with us $4 by 24 Please to send 12 pat long with tube sheets and pass horizontal tes, making pipe in every distillation stand enough for the heaviest kind of work also at what price and when?

Very truly
T. A. Edison
K

P.S. Please send answer of this note to
John Krusi
Menlo Park
N.J.

828

(c)

Jan 22 1

Vanderpoel
Sir:

Mr. Edison has given me your letter of Jan. 3, to answer the questions asked I reply:

1. Lamps of any desired candle power can be constructed

2. The candle power of any lamp may be changed at will by introducing resistance into circuit with it

any number of lamps may be placed in the same circuit. We have now 575 lamps on one circuit of 16 candle power

1 4. Lamps of any required intensity can be placed on the same circuit.

5. We obtain about 150 candles from an indicator horse power and can subdivide that not will

6. The price of the lamps will probably be about 2½ francs

7. A machine which will give 1000 candles in one hundred different places costs about 8000 francs

8. Lamps lasts about 400 600 hours

9. The light is perfectly steady if the source of power is uniform.

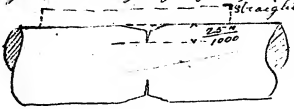
10. We do not know.

We store, as to speak, electricity by having plenty of power at the station where we manufacture it.

Yours Truly

Francis R. Upton.

it by hammering the cut edges together, as is revealed by the magnifying glass.



Besides coming to see the line of Sat. night it might be satisfactory to you to see the shaft and disposition of plant.

The pole-plate has not been cemented or bolted as you may wish to have it done under the direction of the man who is to put up the engine.

The first if not

Jan. 25th

Chas. J. Porter, Esq.

My dear Sir,

We seem to think that you have been misread upon in some way, here we cannot says

The cut in the shaft could not possibly have been caused by rolling upon a sharp edge, it would have taken many more times the weight of the shaft to do it, but all indications lead to the conclusion that when the sleeve was held on the shaft it cut into the shaft as well as the sleeve, marks on both corresponds. The workman attempted to unscrew

we shall be ready for
your [illegible]
[illegible]
[illegible]
[illegible] good neighbors
[illegible]

Menlo Park N.J. 8. 24. 78

J. B. Sheridan

Dear Sir

If the City burned as you say 20000000 cubic feet per minute or 70000 cubic feet per day it would burn this 70000 in 5 hours because that is the average burning because instead of 10000 five feet burners there would be about 3000 burners — you have calculated that all the gas are consumed in one hour —

now if the maximum number of burners is 3000 then there would be necessary about 450 H.P. and allow for the loss in transferring water power into Electricity & Electricity back into power and power again into Electricity accounting for no loss on conductors we must have about 650 H.P. at Turbine = hence 4.33 Tons per water H.P. but as we must have a conductor we, will use two wires 14 miles long costing for Copper $50,000.

130 H.P. more must be added at Turbine hence 780 H.P. must be put on at Starline hence with 3000 lamps you would use about 4 per Turbine H.P.

Investment

4 machines at [illegible]	$ 2000
Tools & appliances [illegible] etc.	7000
Conductors [illegible] etc.	58000
8 Dynamos at [illegible]	
4 at 8000 4 at 2000	20000
Connections, Regulators etc.	
[illegible] meters & anything	3000
Wires & conduits [illegible]	7000
1200 [illegible]	600
	$ 97600.

3000 lamps given for use for night at $2 per [illegible] $6000 per day is receipts

Running Expenses

Men at [illegible] day & night	7.00
" " each station do. " (8)	12.00
Rent [illegible]	3.00
Collector	3.00
Repairs, coal & [illegible]	
[illegible]	13.50
3000 lamps at 100 hours each at 60¢	
1000 hours per year or 2.7 per day	13.50
Depreciation	500
Depreciation at 10%	500
Running Expenses	$200.
Receipts at $6.- per day	600.00
Profit per day about	$ 700.00

Yield [illegible] $70. per day 300 Days $21000.
Dividend $17500 or 83 p. c
But if you sold it for 2c then $175.00
would be the daily receipts
substracting daily expenses $82.00
profit per day $103.00
or $30000 about 20 per cent

3 or 4 stations only will be required
for Portland and if water power is
used one or two floors only of an
ordinary Building will be required.
I also examined that at the maximum
point of consumption between 5 & 6
in the evening that there will be
about 10,000 burners lighted @ 5000
per station in Portland instead of
the 8000 as you estimate would call
for.
The average number of burners of
burning per lamp is 8 burners each
lamp 8 feet per burner or 25 feet
per night burner 250 000 feet per night
or in 300 days or 75 million cubic
feet per annum or 17000 do.

The extra expense required will be
for 10000

Inclosure the Beach [illegible]	60000
Conduction	40000
Extra at Conduction	2000
Extra	10000
	150000
Forest reservation	17000
Total	$ 100.000.

Expense daily including Superintendent	$2.00
Extra with extra lamps	115.00
	117.00

Keeping 2000 lamps 2 c. of per day 250 m^s per day at 2^cc per m	500.00
	117.00
Expense	$ 352.00

Investment	306000
$600 for 200 days	115730
35% p.a.	
But if you call for $2[illegible] for m. Receipts will be	190.730
Exp. power	42 700
	$151.055

49 p.a. on investment

Of course there is this work & perhaps much question & power at Turbine are a great many other things. Depreciation may be great on your Dams, & the mere etc. etc. on 400 h.p. gave 3000 hours equiv. 700 h.p. you would require about 2500 h.p. at falls for the 10000 light. Steam power not available in day time. — This estimate is a mere guess. It would require about 3 days to make an estimate that would come within 5 or 10 p.c. of the truth and then more data must be obtained. These figures were only and you to get an idea. Off is possible to use the Cascade Portland and the falls then $30000. or more can be saved in investment

James 1

B Bergman
Dear Sir

Enclosed please find check — the and that you pay to Bearer — the E.B. Lewis he can give you some on any — or I don't know some to say — write them down to — or better get I once see before you leave and have more it to day

McCormick

Dear in Lester here has charged me $[illegible] for 11 days work allowing hand the 45st which is charged for our pay — I can only make it $37.50 please see to the me.

James 1

C E Spencer
Dear Sir

Mr Olson requested me to say that he has a chance to buy a set of the Franklin Journal complete from 1791 – 92 vol uniformly bound in calf. prime cost at [illegible] is at a bargain and should like to know if you should be in receipt to the London E.B. Journal as if you could get the commission for set at subscription price please get them [illegible] as have from (1809 & 1810 volumes) want from 93 to 1801 – In regard to the Work on D. Right Sir he says he does not care to avail on the same Book with [illegible]
Yours [illegible]

Jany 26th 1

(C)

Dear Mr Sorey

Referring to your favor of Jany 20th - I have carefully examined Mr Edison's papers and can find no reference to any assignment of any of the undivided interests of the E.E.L. to Parker, Bailey or Sanders - indeed the only paper on file here bearing on the subject is the contract of May 28 1879 of which you have a copy. Neither Parker or Bailey or either of the others have any interests in the inventions of any other persons than Edison

Very truly
T. A. Edison

G.W. Sorey Esq
N.Y. City

Jany 26 1

C.E. Speiss Esq
N.Y.

Dear Sir; Please send me "The Engineer of Specifications" by Louis M. Haupt

Very truly
T. A. Edison

Jany 26th 1

Owen A. Gill Esq
Baltimore Md

Dear Sir; Your favor of the 23d was duly rec'd. I am very much pleased with your success in working the lamps. We shall soon have a number of small dynamos and then I shall be able to supply you with one.

Very truly
T. A. Edison

(C) Jany 26 '81

My dear Tom
Yours of yesterday just at hand. I have gone to Washington tonight. May not be back until Saturday. Can you not drop down Thursday to see us for a few days?

Very truly
J. P. Morgan

Jan. 18th

Mr. Geoche Ten.
Weight & Steam Engine Works. Newburgh N.Y.

Dear Sir!

Yours of 25th is received
The request to give us a statement of what speed and at what power the Motor was to run, was made to Mr Bigler to enable us to make a Dynamo and Light to suit and that we could not complete our work without some base to start from. We proposed to run the Dynamo only 900 to 1000 revs per min. for greatest duration of intervals in attention and inspection of wearing parts of the Dynamo. We will have to make the Lamp to suit the power we find on the Dynamo at recited speed and therefore informed Mr Bigler that a limit of speed and pressure on the Motor must be provided by proper safety escape or Governor-valve. It possible to make such controlling arrangements for your

Jan. 25th

Motor, that the speed vary only slightly and rather operate only at intervals then we can make a correct light, else at slow speed of Motor the carbons would hardly get red hot or shine and at high speed would run up the intensity of the light to destroy the lamp at once or quickly.
We accept from your experiments a speed of Dynamo of 600 revs per min. at a power of 1½ Horse power and expect you will be able to govern your Motor accordingly. If that is satisfactory we can finish the Dynamo in about 10 days.

Yours truly

Collins & Fleming

Jan. 28

[illegible]

[illegible]

Please [illegible] the [illegible] of the following works,

Williams. Lehrbuch der Experim. Physik.
Houston, [illegible] " " Naturlehre "
Boutan, Memoirs [illegible] Physique
Müller. Lehrbuch der Physik [illegible]
Todhunter. Analytical Statics.
Goodeve. Principles of Mechanism.
" Elements of " "
Ball. Experimental Mechanics.
Francis. Lowell Hydraulic Experiments.
Bunsen. Gasometry.
Dentin. Acoustics.
Radau. Wonders of Sound.
Billet. Traité d'Optique phys.
Magno. Répertoire d'Optique moderne
Nugent. Treatise on Optics.
Parkinson. A Treatise on Optics.

Focaud. Oeuvres complètes.
Chevalier. Nouveaux photographiques instruments
Ryde. Wonders world with the microscope.
Ropper. Physique amusante.
Ringwald. Traité d'Electricité et de Magnétisme.
Weinhaum. Die Silberne Telephonnetz.
Pfaffenhoff. Transmissionsmaschinen Bing.

Catalogues.

Ruhmkorff. Paris.
Rutenil. "
Alvergniat. "
Hoffmann. " (Optical)
Haring. " (Acoustical)
Rost. London (Optical & General)
Nagatti and Zambra. London

Yours respectfully,
T. A. Edison
per. [illegible]

Jan. 28 - 1

Dr. A. E. Foote
1223 Belmont Ave.
Philadelphia

Dear Sir:

Have you a copy of the "Pennsylvania Bituminous Coal", or "The Reports of the Mine Inspectors of Pennsylvania?"

Very respectfully,
J. McBean
P.M.P.O.

Jan 29th

E. R. Richmond
Dear Sir
Please send
six large bottles of your Polish
Very truly
R. A. Edison

Jan 29th

C. M. King Esq
Dear Sir
Yours of 26th was
received and in answer would
say that we have used a Babcock
& Wilcox boiler for three years
and we are so pleased with it
we have ordered another one for
our other factory and we do not
intend to buy other in future
Very truly
R. A. Edison

828

Menlo Park N.J. Aug 1, 1881

Carr A. Gill Esq
Balto Md.

Dear Sir:

Yours of the 27th was duly received. You perhaps know that all my efforts have been and all my appliances are devoted especially for the general distribution of electricity throughout a city to be sold by meter and not for the lighting up of a single building hence I am at the present moment at a slight disadvantage when asked to light up a single building—I could very much easier light up a square mile with 1500 to 2000 houses than I could a single building although that may seem a paradoxical fact.

I am getting our offices in New York and I expect very soon to accommodate the system to a old lighting. Before giving an estimate on lighting the Penitentiary I would like replies to the following questions.

(1) Is the Penitentiary within the limits of gas lighted city?

(2) Is it heated by steam?

(3) If so how many boilers have they?

(4) What is the average boiler pressure?

(5) How many one or more steam engines?

(6) What is the size of the cylinders?

(7) What are the engines used for?

(8) What is the extreme distance from the boiler room to the last light?

(9) What was their gas bill in December?

(10) Between what hours is 75% of gas used?

(11) If lighted by gasoline how much gasoline was used in December?

The cost of lighting by electricity will depend upon conditions. The cost of coal at Baltimore, the number of hours of burning and cost of labor. It will certainly be cheaper than gas or gas made from gasoline. If you give me these details I can probably give you an estimate of the cost of plant & its running expenses within 10% and perhaps 6%.

Very truly
T. A. Edison

Jany 29. 1

D. P. Newman
New York

Dear Sir:

Your favor of the 26th came duly to hand. Train leaves N. Y. at 4 25 ferry foot of Cortlandt St or Desbrosses St. Train from Menlo leaves at 6 20 P.M. You may name a day. As public days are Wednesdays & Thursday some other than the ones mentioned may be better. If you will inform me how many there will be in the party I will be happy to forward Rail road tickets.

Very truly
Thos. H. Carson

Jany 29 1

C. D. Burch Esq
Chicago

Dear Sir:

Your favor of the 26th is just at hand. I have this day ordered the Electroplate ware to and will send them to you per Express as soon as rec'd

Very truly
T. H. Carson

876

New York Jan 30 1881

Mr Conner

The accompanying memorandum contains all that appears on the records of the Board of Aldermen in regard to Gas Companies. The Gas Corporations not alluded to obtain their franchises from the Legislature and were accordingly made independent of the action of the Aldermen.

I am now examining the old records connected with this office.

There is one point in connection with all this matter which I think is worth consideration. You will see by the memorandum that the Aldermen on Nov 24th 1881 delegated their power to contract with Gas Companies to a Commission composed of the Mayor, the Comptroller and the Commissioner of Public Works. Now the Legislature of 1875 passed a law giving all incorporated gas companies permission to use electricity for lighting or other purposes and allowed the opening of streets and the use of all necessary appliances. Why does not the Edison Electric Light Co. arrange as a Gas Company? If this were done the Aldermen would have no power in the matter at all. This is my construction of the law, and it might be worth while to look into it. If you have the Legislative laws of 1875 in the Office I can point out the act.

Yours 1881.

The Municipal Gas Company obtained permission to lay the mains and pipes under a resolution of the Common Council, passed December 23rd 1876, as follows.

Resolved. That permission be and is hereby given to all incorporated gas light companies to lay gas mains and pipes on the streets, avenues and public places in this city for the purpose of supplying gas to the city and the inhabitants upon such conditions as may be just, approved of by the Mayor, the Mayor, the Comptroller and the Commissioner of Public Works who are now by law authorized to make provisions for regulating the streets of the city.

Mayor Smith, Comptroller Kelly and Commissioner of Public Works Campbell granted the prayer of the Municipal Gas Company, on March 22nd 1877 the following conditions were imposed on the company:

First. The manufactory or works necessary for the purpose of producing and furnishing Gas shall be so conducted as not to be in any way detrimental to the public health or otherwise create a nuisance.

Second. The gas furnished shall be of the best quality of Illuminating Gas, and of an Illuminating power of not less than

series candle when tested at a distance of not less than one mile from the place of manufacture.

Provided, that shall be supplied to the public lamps situated on the line or lines of the premises of said company, and said lamps shall be lighted, when required by the City, at a rate not to exceed the maximum of twenty dollars per annum for each lamp burning thirty-eight hundred and thirty three and one third hours and consuming Gas through a burner consuming three feet of Gas per hour under a pressure of one inch; the said rate to include the Gas, lighting, extinguishing, cleaning, repairing, painting, and painting the lamp posts and lanterns, replacing the cocks, tubes, burners, crossheads, lamp-globes, and lanterns. Also, the prices for setting up and repairing lamp posts, when made at any time be required, shall not exceed the following rates, to wit: For setting up each lamp post, ten dollars. For straightening each lamp post, one dollar and fifty cents. For relacing each column, one dollar and fifty cents. For refitting each column, three dollars and fifty cents.

For removing each lamp post, three dollars [illegible] cents.

[illegible] said sum of forty dollars
Fourth—If at any time during the continuance of the permission given by said resolution of the Common Council, it shall be considered by the Commissioner of Public Works that the cost of production or manufacture of gas shall be reduced to an extent to warrant of the lighting of the public lamps at a rate less than twenty dollars per annum, then in that case arbitrators shall be appointed, one by the parties of the first part, one by the parties of the second part, and the two so appointed to designate a third, who of three shall determine upon a fair and equitable rate below the said twenty dollars.
Fifth—Gas shall be supplied to the public buildings or offices of the Corporation situated on the line or lines of the mains of said parties of the second part, whenever the said company may be required so to do by the proper officers of the city at a rate not to exceed two dollars per one thousand cubic feet. Sixth—From and after the first day of January 1876 Gas shall be supplied to all persons residing or doing business on the line or lines of the mains of the parties of the second part, who may desire the same, at a rate not to exceed two dollars and forty cents per one thousand cubic feet, and no consumer

shall be deprived of gas upon refusal to pay or in consequence on account of a dispute as to the bill rendered, until such consumer shall have been served with an affidavit of the inspector of the said company as to the correctness of the register of the meter through which such gas has been passed. Provided that, having such affidavit upon the premises where gas has been furnished, with some person of suitable age discretion shall be a sufficient service thereof on such customer.

Seventh – The Common Council of the City of New York shall have the right to order the mains or pipes of said company to be extended in or along any of the streets, avenues or public places of the City, provided that said parties of the second part shall not be compelled to expend in the laying of mains a yearly sum exceeding ten thousand dollars.

Eighth – All trenches or excavations shall be filled immediately after the mains or pipes shall be laid, the earth to be thoroughly rammed as the same is thrown into the trench or excavation, unless the pavement to be replaced in such

and workmanlike manner, and to the entire satisfaction of the Commissioner of Public Works; and in case the said company, or its successors, shall fail or neglect to replace the pavement or pavements to the satisfaction of the Commissioner of Public Works, then the Commissioner of Public Works shall have the right to cause such pavement to be taken up and replaced in good and workmanlike manner by a person or persons to be appointed by the said Commissioner of that purpose; and the expense of such work shall be paid by the said parties of the second part to the Commissioner of Public Works.

Said company shall also be governed by the laws and ordinances of the Common Council of the City of Newyork, and by such rules and regulations as the Commissioner of Public Works, his successor or successors in office, may prescribe for the laying of mains, and the proper protection and filling of the trenches or excavations for taking up, replacing and repairing of the pavements, and the lighting, care and maintenance of the public lamps.

Fifth

resolution of the Common Council, unless sooner revoked as hereinafter provided, shall continue for the period of thirty years from the day of signing of these conditions by the Mayor, Comptroller and Commissioner of Public Works; provided all the conditions herein prescribed shall be fully performed by the said company. Whether said permission and right conferred on said company by said resolution shall be assigned or transferred without the previous consent of the Common Council.

Tenth — The Common Council may repeal, amend, and revoke the said resolution and the permission thereby given, upon the failure of the said company to perform any of the conditions herein contained, and thereupon all rights of said company under said resolution and these conditions shall cease, and said company shall thereupon remove all its poles and mains from the streets, avenues, and Public Places.

Eleventh — It is expressly provided that nothing herein, nor in said resolution contained, shall be construed as granting the said company of the second part any sole or exclusive right or privilege

or other tax granting privileges similar to those herein and by said resolution given to any other company, persons, or parties whatsoever, or as preventing any person or persons from erection of in or upon his or their own premises any building or apparatus to light with Gas for his or their own houses, stores, manufactories or premises.

Provided: The permission given in said resolution shall not become operative or take effect until the said Municipal Gas Light Company shall have signified its assent to these conditions, and the acceptance of the permission given in said resolution upon these conditions.

Subsequently, the three City officials before named made the following concessions to the Company:

Whereas, Permission was given to the Municipal Gas Light Company to lay mains and pipes in the streets, avenues, and public places of the City of New-York and for other purposes, under certain conditions prescribed in an instrument dated the 22d day of March 1877, and which is hereto annexed, made and executed by the Mayor, Comptroller, and Commissioner of Public Works of the

work and accepted by said Municipal Gas Light Company; and Whereas, it is provided in the sixth article of the said conditions, that from and after the first day of January 1878, the said Gas Company shall supply gas to persons residing or doing business on the lines of their mains, and at the rate thereinmentioned; and Whereas, at the time of the making of said conditions, it was supposed that the said company would be prepared and able, by having their new works finished, to deliver gas to all such consumers by the 1st day of January 1878; and

Whereas, been represented that the works of said Company are incomplete and will not be in readiness for the delivery of a full supply of Gas until about the 1st day of July, 1878.

Now, therefore, it is hereby agreed, by and between the said parties to the said conditions, that the time in delivering the gas mentioned in the said sixth article of the same shall be extended until the works of the Company are completed

The Municipal Gas Company has also obtained control of many other valuable franchises besides the one originally held by it. In September 1863 the Common Council made a grant to "The Anthracite Gas Lighting and Heating Company" the grant to this Company was to lend fifty years, and the mains and pipes were to be laid under the direction of the street Commissioner. The Company was required to restore the streets opened by them for laying such pipes on the same conditions as before the said pipes and mains were laid.

On May 26th 1865 this franchise was amended by the Common Council by adding thereto the words "and their assigns" The Anthracite Company at once assigned the grant to the Citizens Mutual Gas-Light Company, which in turn assigned the same to the Union Gas-Light Company (a company incorporated by chapter 214 of the Laws of 1871)

The Union Gas Light Company having become insolvent was sold out by a receiver and the property and privileges held by it were purchased by Mr. Clarke Hall who subsequently assigned the same to the Knickerbocker Gas-Light Company and this Bitter Company

on March 14th 1910. said and assigned
all its rights and privileges to the
Hanover Gas Light Company.
The Municipal Gas Light Company has
in addition to the privileges given under
the resolution of December 23rd 1876.
controls the franchise given to the
Anthracite Company and also the
charter granted by the state through
chapter 94 of the Laws of 1871.
The Municipal Company is only one that
has obtained permission to supply gas
under the Common Council resolution
of December 23rd 1

Figure 1

Louis de Rubian Esq
New York

Dear Sir:

Yours of the 3d was duly rec'd. The first steamer on which my system of lighting was introduced was the S.S. Columbia of the Oregon Steam Co. Since fitting this steamer the system of lighting steamships has been perfected still further. To give you a rough idea as to the cost I will state that the cost of plant will be about $2800. Twenty Eight hundred dollars
This is the actual cost, a yearly royalty will be required by our Company which will be based on the saving to the S.S.Co between the electric system of lighting and lighting by other methods. We guarantee satisfaction. I would be pleased to have you and your friends come to Shell Bull on Wednesday or Thursday night of this week. We have 8 miles of lights burning and also light up several houses.

Very truly
A. F. R. Ellison

Feb. 5th 1

J. W. Thompson Esq.
My dear Sir:
Make the sleeve 6 1/2" diameter. Be certain of a good fit on the shaft, and leave the sleeve as near 3/4" in thickness as possible.
Yours,
Yours very truly,
[illegible]

Feby 5th 1

R. G. Dun & Co
Newark N.J.

Gentlemen:

Your favor of the 4th is just at hand. The Co referred to is composed of the names as seen above. We have $35,000 invested so far. The Co is not incorporated. Dont think we owe $1000. Hope nobody will ever give us any credit.

Very truly
Thos A. Edison
by

Feby 9 1

Dear Sir; Yours of the 7th was duly rec'd. It is utterly impossible for me to entertain your proposition as I am overworked now.

Very truly
T. A. Edison

Standish Moore Esq
Rochester N.Y.

Feby 9th 1

L. W. Serrell Esq
New York

Dear Sir:

Referring to your letter of yesterday it will be quite impossible for me to attend the telephone interference case. Do not have Murray testify to anything except as to his interests as a manufacturer, excepting you might ask him if he remembers us working with the three tube instruments in 1875. If his memory is bad this is all that he need remember and its perhaps best that he remembers no more.

In regard to Clarke had you not better communicate with Stimson who owns Clarke's patent? I had no interference so can consider no advice.

Very truly
T. A. Edison

911

Feby 11th 1

Chas F. Sexton

Gentlemen:

Your favor of the 9th is at hand. The lamps I use are from 8 to 16 candle power each which may be distributed the same as gas. Amount of space required not more than 10 x 10.

Last week we lighted up the Lithographic establishment of Mess. Hinds & Ketcham in N.Y. They were unable to work at night until they put in the E.L. Now I learn they have no difficulty distinguishing colors.

Yours truly
T. A. Edison

Feby 11th 1

Geo F. Swift Esq
Brooklyn NY

Dear Sir:

Your favor of the 7th was duly rec'd. I will soon have an Engineer in charge of this class of work.

About $10,000 would perhaps make the installation for work on the road by electricity.

Very truly
T. A. Edison

616

Feby 16th 1

E. Louis Lowe Esq
N.Y.

Dear Sir: Yours of the 12th is at hand. Mr Eddred visited me after his return from New Orleans and said he would call on you in regard to Morgan's claim. I supposed he had done so but learned yesterday that he was called suddenly to Europe and sailed on the 6th, the day after he was here. Mr H. L. Stoke is his representative. Room 36 W. H. Phelps Bldg. Mr S says if you will call on him, or send him a note saying when he can see you at your office he would be glad to talk the matter over with a view to settlement.

Very truly G. H. Pedrick
Eq.

May 5

C. H. Johnson Esq

Dear Sir

Your letter on Wallace wire received and turned over to me by Mr Dixon. I have sent Wallace the substance of wire with a copy of your letter enclosed asking him about it as soon as I receive his answer I will write you in regard to it

Very truly
McCormick

Please send me your picture and the letter book you promised me on telephone

N. C.

May 5

Wm Wallace Esq
Dear Sir
Enclosed
I have copies of letter received
from the Tel Phone Company
of England and also sample
of wire mentioned. Please give
me your views on the subject

Very truly
T A Edison
Carman

Rock Island April 8. 1880

Gentlemen

Pacific Mail S. S. Co.

Sir

I receive herewith letters patent No. 1 No. 2 No. 3 No. 4 No. 5 No. 6 No. 7 No. 8 No. 9 No. 10 No. 11 No. 12 No. 13 No. 14 illustrating inventions of mine, some of which, in part and some in toto, avoid the Page Patent. If the Page Patent is finally sustained, in whole or in part some claim will attach to them in so far as they may avoid said Patent or avoid it so far as sustained. I claim the right to lodge them to the [illegible] and upon the following [illegible] [illegible] pay it to pay the expense for and procuring patents thereunder. You will be to prepare such application. If the Page Patent be not finally sustained, the Co. to be at no further expense therein. If the Page Patent be finally sustained the claim therein attached to them as above indicated shall be to be considered as included in the contract with the Co. dated March 22d 1877 and a price is to be paid, to be then fixed under the provisions of said contract. In the mean time I am to have the

Further, if before the final determination of the Page Patent the Co. should have to assume the entire title by proper assignments, I will make such assignment upon the determination and payment of a price in the terms provided for in my contract with the Co. that is to say, a price to be agreed upon mutually or by arbitrators as therein provided.

Please answer as to the acceptance by your Company of these terms.

Thomas A. Edison

Letterbook, LB-007

This letterbook covers the period January 1881-August 1882. Most of the correspondence is by Edison. There is also correspondence by Samuel Insull and Richard N. Dyer. Most of Edison's letters are in the hand of Insull or John F. Randolph, acting as Edison's secretary. Included is correspondence relating to Edison's patents, electric lighting in Europe, and the application of the phonograph to telephony. There is also a cost estimate for an electric railroad similar to the one constructed by Edison at Menlo Park. Among the recipients are the Edison Lamp Company, the Edison Electric Light Company, the Edison Machine Works, and Sherburne B. Eaton. The spine is labeled "1881-1882" and is stamped "Private Letters 6." The book contains 963 numbered pages and an index. Approximately 30 percent of the book has been filmed.

Jan. 14/1881
Aug. 22, 1882 = T. A. Edison

Adams: Ellen.	6.33.	
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Armington and Sims	417.522.	
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Ayers H. C.	431.	
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Aspinwall John	624.660.667.906.	
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Dean & La	127.628.645.671.790.792.799.804.854.868.898.913. 170.290.403.428.434.437.448.449.469.518.520.547.552.576.626.
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Edison Machine Works	141.250.470.697.719.844.887.911.
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Electric Railroad Co	274.316.352.
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Electric Light Co London Edison	393.
Eagan Jas.	429.
Edison Spanish Colonial Co	457.885.
Ehnoscde Parian	548.560.620.670.809.869.924.938.
Eckhert W.H.	623.
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Edison Telephone Co Eng Pat	658.
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Edison Indian Colonial Co	718.860.
Edison Paris	769.777.869.
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Foote Frederick W.	448.	
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Fabbri S. P.	745.789.	
Fontana A.	849.	
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Gilliland S. T.	415.	
Graves Wm. D.	415. 609.	
Gardner Lang &	700.	
Gurgo W. &	706.	
Green M.	847.	
Gregory W. &	905.	

Hatch R	27.	
Heinds Kitchen and Co	40.	
Hanson Van Winkle	65.302.	
Hedges Bros	75.	
Holland & Co	79.	
Hoyt J.B.	83.181.663.	
Hagerty Bros and Co	93.211.	
Hedges E.T.	99.	
Hayden P.	122.215.	
Hoy Jacob	149.157.155.187.228.	
Hachmeister Chas	204.	
Hill Robt R	207.	
Humphry R.	363.	
Hopkins Geo M.	388.536.	
Hussey M. & Co.	402.	
Herrschoff Mfg Co	411.476.	
Hanford J.J	439.578.579.582.631.632.737.	
Hannington Geo F.	458.460.472.563.566.	
Hutchinson J.	470.731.	
Hasbrouck F.S.	501.	
Hayward Perry Bradley	504.505.507.605.700.793.798.842.	
Heraclite Paints	515.660.716.740.	
Hagemeyer & W.	535.	
Harris Phillips P.	621.	
Howe Geo M.	645.	
Hummer W.J.	749.816.	
Hamilton Geo A	788.866.	
Harper Geo	800.	
Howard Henry	852.	
Holden Wm	868.	
Higgins E.H	902.	
Hermsmeier Geo.	907.	
Howard Spencer	930.	

Ingalls Ed Co 63.
Insull Saml 81.95.100.141.145.667.
International News Co 166.614.
Innes Robt. S. 802.

Jenning Bros 71.
Jacobus A W 364.
Jehl. Francis 377.
Johnson. E. H. 396.541.754.896.901.

Johnson E. H.	17.19.32.146.325.337.	
Jacobus A. W	177.186.205.313.	
Jehl Francis	221.	
Jones Ed. Kittland	267.	
Keller Ed. & L. H.	74.	
Kunzi John	719.826. 134.234.242.281.295.297.376.400.412.413.462.498.552.616.619.628	
Kelly A. C.	164.	
Kelley Judge	461.886.	
Kiergaard Ed. & Co	625.	
Kennedy M.	554.	
Kelley Wm. H.	764.786.	
Keppler & Schwarzmann	937.	

Lowry G. P.	8.452.579.
Leonard and Ellis	42, 147, 163. 235. 338. 625. 764.
Leggat Bros	72.
Leonard J. H. & J.	73.
Lalanne & Bourjan	89.
Lehigh Valley Coal Co	117, 210, 284, 292, 350.
Lukenbach M	153. 217
Leonard and McCoy.	171. 216. 264.
Lobstein Joseph	176. 234.
Ladd Geo S.	230.
Lyons L. J.	273.
Lubbock John	328.
Leigh Edwd. C.	510.
Leyou Chas H	610. 776.
Lamb Wm	618
Lungren & Wm	622. 766. 919.
La Due Wm	687.
Lord Saml.	705.
Lopez J.	778.
Lutch A. E.	844.

Michels John	10.24.28.658.676.	
Merrick Wm H	57.	
Munn and Co	61.	
Mercantile Review Mf.	82.	
Moore A. F.	88.117.123.215.	
Mica Roofing Co	116.271.294.297.298.313.365.366.	
Mica Chestard Co	132.162.294	
Mitchell Vance and Co	135.	
Manning and Co H. L.	187.	
Morris Tacker and Co	225.	
Mott J. L. Iron Works	272.434.508.	
Morrison C. W.	294.	
Munroe A. M.	351.	
Mitchell H. R.	375.	
Metropolis Bank of	356.565.649.699.834.835.897.909.	931.
Miller Brig Gen Nelson	421.	
Meadowcroft W. H.	548.694.730.751.790.802.846.850.	
Morris L. W.	556.627.	
Massie Capt W. W. Surg Gen	568.	
Martin Alex N.	611.	
Mesany Joseph	611	
Maloney Pat. J.	613.	
Moore W. F.	644.853.884.906.908.	
Metcalf L. S.	704.	
Manningham Charles S.	715.	
Mallory Geo B.	757.	
Mason Robert W.	825.848.933	
Martin W H	834.	

McKab^ed Harlin	54.203.224.243.254.262.285.	
McKesson ^ed Robbins	85.111.114.119.122.135.174.	125.170.175.267.314.360.396.[illegible].[illegible].265. 74.185.191.194.198.199.201.216.237.
McKay Joseph	168.184.186.210.263.	
McKenna Owen	239.	
McAlister. J.H.	315.	
McCarty R.A.	495.	

New York Books	46.144.	
Newton Leo B.	210.	
Norman Mr	474	
Newyork Electrical Society	502.	
Noel S. P.	505.	
Nozide London.	576.526.	
Nuder. W.	539.	

Ogden 2nd Co	52.458.	
Ott John	96.	
Oliver James	97.	
Ore Kielling Co	339.	
Oldcomman J. Jr.	457.684.	
Ulrich Henry	463.465. 573.618.	
Ensley Co	756.	

Prescott Geo B	23.	
Phelps Geo H	24. 61. 136.	
Proffitt Ed L (22)	44.	
Plum Matthias	50. 92. 102. 137. 156. 163. 192. 240. 270.	
Phillips O. F	51	
Prager W	51.	
Pratt Chas.	64. 89. 121. 152. 176. 184. 204. 211. 227. 229. 232. 262. 299. 368	
Peirce Chas H.	70.	
Patterson Bros	113. 118. 148. 150. 172. 177. 182	153. 185. 200. 202. 204. 242. 252. 296. 305. 326. 334. 342. 352
Polhemus John	212.	
Passaic Rolling Mills	220. 266.	
Prisoners do	255.	
Penhale W.	263.	
Pages Chas	327.	
Price W	329.	
Painter H. H	361. 451. 476. 636. 672. 774.	
Puskas and Bailey	409. 543. 717.	
Pettijer A.	413.	
Perry W. S.	457	
Park and Pilford	459. 580. 537.	
Perry Edward H	524.	
Prager W.D.	572.	
Pierce F	689.	
Pennington J. J.	691.	
Pond Commins	714	
Perry Jr. S.	859.	
Pickard E. L.	923	
Pike Geo	935	

Rubber Co. B. Co	67.	
Rubber Co W. J. Co	73.	
Rich. W. D.	265.	
Rowland W	315.	
Richards W M.	379.	
Roop Chas. S.	711. 780. 789. 900. 381. 382. 386. 387 401. 461. 466. 469. 473. 506. 512. 579. 518. 531. 561. 563. 569.	
Ruff J. C.	410. 628	
Railway Gas Works	583. 617.	
Richards C. B.	558.	
Renshaw	606. 681.	
Robertson R. A.	645.	
Rice J Kearney	692. 699. 814. 815. 851.	
Ramsing J. B.	708. 789.	
Randolph	791. 795.	
Ronnie John J.	831.	
Richards J. H.	833. 863.	
Russell W. H. H.	833.	
Roswell V.	908.	

Sewell C. U.	28. 450. 509. 520. 709. 749. 898. 838. 845. 924
Shiras C. E.	265. 301. 412. 425. 477. 606. 865. 880. 902.
Shorn & Co. F.	48.
Shainsky Wm	55. 69. 120. 189. 235. 271. 299.
Sellers Wm	66. 173.
Salamander Works	71. 270.
Sayre J. R.	74.
Southwark & W Foundry Mach Co	87.
Seymour & Whitlock	159. 350.
Strong F W	196.
Shotwell F. W.	241.
Stephenson Car Co	295.
Siven from London	387. 422. 545. 587. 932.
Societe Electrique Edison	391. 621. 626. 637. 655. 713. 746. 779. 789. 827. 916.
Shaw S. B.	439. 600.
Staddart Mrs	465.
Smith Geo A.	519. 612.
Shaffer Mr & A	550. 995.
Smith G. B.	562.
Smith Albert H	614.
Sweet Chas. P.	674.
Seymour Thos	702.
Simpson Chas P.	773.
Shaw I. B.	843.
Speis Chas	861.
Snyder Chas H.	864.
Seidner G.	886.
Shimmel & Comer	920. 928.
Schumann Draf	929.

Tapping M.N.	52.	
Thomas Robert Ed Clemson	76.	
Tupper W H.	77.	
Tillotson L. C.	79.581.629.	
Thompson H H	115.165	
Thompson G W	165	
Tracy H.L.	471.543.	
Thomas Thos	567.	
Turettini Mons Thos	588.619. 620.654.	
Tappen L.B.	609.	
Tufts John Maj	630.	
Turner W.W	686.689.	
Thomas J.	785.	

Upton J. R.	281.283.299.925	
	18.378.380.468.500.555.664.667.681.682.685.752.799.791.806.807.860.870	
Utley M. H.	509.	
Unger R. D.	509.	
Uhl Lemon & Rus	704	
United States Dispatch Co	788.	

Van Voorst	36.	
Van Vleck Geo W	66.	
Van Nostrand	69. 577.	
Vulcanized Fibre Co	90.	
Vanderbeck Edwin	162. 232. 261. 265. 288. 330. 345. 357. 822.	
Vanderbilt E M	449	
Vanderlip Frank	726.	
Vail J H	785. 923.	
Vroome Geo R	801. 839. 903.	

Miller M.	25.86.	
Wharton Joseph	39.43.84.126.188.333.338.	
Wapler H.	78.	
Wilber Mapp G.F.	78 78 167.398.403.436.456.508.514.557.602.684.688.690.731.732.769.780.797.	
Woodward C.W.	223.289.286.	
Wright Ed Zemanicka	349.	
Williams Globe Wire Wks	349.447.	
Western Elec. Mfg Co. N.Y.	378.419.702.	
White Arnold	420.449.487.53 [illegible] 549.646.658.665.729.760.781.823.829.838.892.914.	
Weber August	428.	
Wallerstein Hor D.	462.511.525.561.669.671.683.796.817.876.887.930.	
Worthington Geo	471.676.	
Woodruff E.M.	477.	
Welmuth Thos	501.	
Western Union Telegraph Co	601.	
Wright L.M.	616.	
Waterhouse Theodore	653.708.733	
Wurth Chas.	696.	
Water Wm	710.	
Wright Chas. H	716.	
Waterhouse Geo Winterbotham	734.	
Washington S.A.	763.832.849.	
Weller Harry M.	769.	
Westinghouse Machine Co	809.927	
Ward Leslie D.N	919.	

Yale Lock Mfg Co	59.	
Yanto Sawing Co	564.	
Young W. M.	685.	

Zuckerman Lewis	190.	

January 18

Capt John Ericson

Dear Sir

It is with regret that I find a letter of acknowledgement and thanks, which I directed sent you at the time of the receipt of your valuable present, was never sent, I hasten now to say that I am greatly obliged and honored by your selection of me to be the recipient of what can with justice and truth be considered a monument of your untiring industry and the practical character of your work.

With kind regards

I am Very Truly Yours

Thomas A Edison

Jan 29 1

Maj. S. B. Ewing
V. Pres. Edison Co. &c

Dear Sir:

In your letter of 26th inst. to Mr. Edison, you desired an agent from this office to the County and also to Trenton, to ascertain, and to advise in writing what the probabilities were in regard to a company with twenty millions capital issued as fully paid, in exchange for patents.

Permit me to report the result of investigations made by me at Trenton and Mt. Holly, of the proper State and County officers:

My first enquiries were directed to Mr. Theo. D. Adams, the Secretary of State. To avoid misapprehension as to my business, I delivered to him a accompanying note, marked A, containing much of the desired information.

I next addressed myself to the State Comptroller in Trenton, who confirmed the statements of Mr. Adams, and further furnished me with the following point, which is [illegible] marked B.

The statement of the County Assessor being deemed sufficiently explicit as to the rate of taxation, I obtained from him the appended memorandum, marked C, which embodies all other necessary information.

Yours, very respectfully

W. H. Wallace.

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Jan 31 8

Geo B Prescott Esqr

Dear Sir

Enclosed please find letter to Louis de Rebiéan will you please read and then send the same to his address

Yours truly
T A Edison
Pres

Jan 31 8

Louis de Rebiéan Esqr

Dear Sir

I have received from Mr Prescott your letter of Jan 28 regarding the engineer of G Perrin. It was at my instigation that Mr Prescott sent you his letter, as I answered your communication immediately after the arrival I supposed it must have been lost. In answer to the inquiry about the fifteen I then offered it and now repeat the offer to sell my patent to Mr Perrin for the duadruplex in France for Ten thousand dollars each (Francs.)

Very truly
T A Edison
per c

22

Feb. 2

Mr. J. Van Voorst
1 Paternoster Row
London.

Dear Sir:

Your favor 19th ult. (in J.C.S.) received, containing acknowledgement of receipt £1. and request that a fur-the remittance of 10 s. be made before you will send the January number of your valued Journal of the Chemical Society. As I do not know exactly to a penny what the cost of postage may be, and as I do not wish another months delay in receiving the Journal, I have re-quested our Mr. Charles Batchelor who leaves for England on next Steam-er to hand you the exact amount of subscription for one year.

Respectfully
T. A. Edison
p. D.A.M.

Feb 3 1

Rufus Hatch Esq

Dear Sir

I want to write your parties in regard to lighting your Iron Steamers with my Electric Light — It will not cost any more than gas what do you think in regard to it

Yours truly
T. A. Edison
Inventor

Feb 12 1

J Michels

Dear Sir

Yours of the tenth received by Mr Edison who has requested me to say that if you can get any party to take hold and put money in science you are at perfect liberty to do so. he is to busy to give it any attention

Very truly

J H Carman

Dec 30 1

Received from Drexel Harjes and Co through Drexel Morgan and Co the proceeds of 286½ shares of Telephone Stock after deducting the amount due by myself with interest to Dec 31. 1880 at 6%

286½ shares — 73,466.52

Int Paris Dec 1 4,588.05

Int to Dec 31 6% 21466 4,770.41

Due 25,995.81

@ 8.25

Cash recd Dec 30. $4,981.58

Thomas A Edison

Mar 30

Thos A Edison Esq
Dear Sir
In answer to

Yours of 25th
The ~~total~~ Cost of the Light experiment
to Mar 22. 1881 — 129.367.84
Received from Co — 126.566.54
Bal due — statement enclosed 2801.30

Now in regard to the law to the ~~Light~~
Co there are none as it has already
been taken out with these exceptions
Goods which are now going away
I which I have a memorandum
but I understood ~~that the E. Light~~
Co would bill them to the Lamp Co
which — I am preparing such a
bill and will bring it to you
when it is done — to morrow if
possible

Yours truly
H Laeman

Dear Sir

I tried those experiments with the galvanometer you cannot extend the deflection [illegible] the [illegible] [illegible] more than about [illegible] [illegible], but if we [illegible] scale larger than the [illegible]

I have got [illegible] [illegible] extends to more than 600 divisions we will be able to get a [illegible] total deflection [illegible] the range of the galvanometer [illegible] [illegible] for a [illegible] [illegible] we might be able to [illegible] some other way to get [illegible] ideas.

[illegible]

Dear Sir

[illegible] several pieces [illegible] sent of the [illegible] [illegible] [illegible] such pieces [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] 1000 [illegible] [illegible] [illegible] This defect might [illegible] proof that it was insulated by [illegible] covering [illegible] very [illegible] [illegible] easily [illegible]

Dear Sir

The following is the test made of the first disk machine.
Resistance of machine . [illegible] ohms
[illegible] [illegible] [illegible] Current goes to excite
[illegible] magnets supplied from [illegible]

Yours Truly
Francis Jehl

[illegible]	[illegible]
31.	[illegible]
32.	[illegible]
33.	[illegible]
34.	[illegible]
35.	3.4
36.	3.6
37.	[illegible]
41.	4.8
42.	4.9
45.	5.1
46.	5.5
48.	6.
49.	6.7
51.	7.3
52.	8.2
54.	9.5
57.	11.
59.	12.8
61.	15.7
66.	29.

To T A Edison Esq
65 Fifth Ave
N.Y.

29th Jany 82

Edw. H. Johnson Esq
57 Holborn Viaduct
London
England.

My Dear Sir,

At Mr Edisons request I beg to enclose you herewith two letters — one to W. H. Preece Esq & the other to Sir John Lubbock which he would be glad if you would deliver.

You might explain to Sir John Lubbock that Mr Edison has been so very busy of late working both night and day, or he would have answered long ere this Sir John's very kind letter. The same remark applies to the letter to Mr Preece. Mr Edison has been wishing to write him ever since he first received the report of his lectures but this is the first opportunity he (Mr Edison) has had of doing so

Yours very truly

Saml Insull

Private Secretary

january 27 2

Charles Porges Esq
Paris

My Dear Sir.

I have received your several letters, and also a list of subscribers to the several Companies now forming in Paris to exploit my system of lighting in Europe, for all of which I am extremely obliged to you. I must apologize for not acknowledging their receipt earlier, but my time has been so fully occupied, having been working for some time past night as well as day, that my opportunities for attending to correspondence have been very slight. I will not trouble you by referring to the various questions connected with the contracts, about which you wrote me as I understand all these various matters have received attention.

As to your enquiries regarding the use of gas engines in connection with our Electric generators, I would remark that up to the present time I have been unable to find a Gas-engine suitable for us to depend on as a source of power, or one which produces any considerable power with sufficient economy

I have heard from Mr Pabbri and Mr Lowrey and many others that which has caused me greatly to congratulate myself that the developement of my Electric Lighting system on the continent of Europe will be very largely under your control

I read with extreme pleasure, your speech at the meeting of your Bank, in which you referred so kindly to me and my work; and while expressing my gratification at the connection thus happily commenced allow me to say that I trust it will be a close and long one and

equally advantageous to all concerned

I am My Dear Sir
Very truly yours

Thomas A. Edison.

January 29 2

My Dear Sir John Lubbock

It was with very great pleasure that I received your kind note of congratulation. With such co-operation as you and your friends can give, I feel that Electric Lighting as represented by my patents cannot fail to succeed in England. I have been unusually fortunate in having in this enterprise the assistance of such men as Mr Fabbri, and now I hope to be as fortunate as to win the entire approval of you and your associates. I reciprocate most cordially the feeling which you so kindly express and welcome gratefully your support and aid in whatever degree you may find it convenient to give it. Hoping at some time to see you personally I remain My Dear Sir John

Yours Truly

Thomas A. Edison

January 28 2.

My Dear Mr Preece.

It was with very great pleasure indeed that I read your lecture on Electric Lighting at the Paris Exposition, and more especially your remarks upon my system as exhibited at Paris

I must thank you most heartily for your very favorable endorsement of my system and congratulate you on expressing your views in so independent and forcible a manner.

Your lecture will be reprinted in Van Nostrands Magazine for February, copies of which I will send you when published. Arrangements have also been made for its early publication in conjunction with Count Du Moncels article from "La Lumière Electrique" and several other articles, in book form as one of "Van Nostrands Science Series"

I can scarcely close this letter without referring to our past troubles, in which I am very glad to say I think we were both mistaken, and to repeat my gratification at having your approval and support in respect to this larger subject.

I am my Dear Mr Preece
Very truly yours

Thomas A Edison.

30th January 2.

Col. Geo. E. Gouraud
London

My Dear Col,

I want to get full information about Street Elevators that are in use in Stewart's Building 11 Lucern Vatican Street. Is there a patent on it in England & if so is it patented in the United States. If patented in England could you send a copy of the English patent? Also can you let me have Stewart's opinion as to the working of the elevator.

My object in asking for this information is that I thought this style of elevator would be adopted for use in connection with the Edison Electric Rail Road System & on my describing the way it was to Mr Edison he thought it would and especially on Elevated Roads run by electricity

I suppose you are anxiously awaiting the arrival of Lorenzo Second Dynamo & we will just as anxiously I get rid of it. We have been standing in our shop at Queen St. West for so much already, so I spend, except the Nig Spec. the bills allowed expense. & edison were not satisfied with a hand induced in Lorenzo and. They were promised a fortnight ago & has again been promised for tomorrow evening. The machine look splendid & will carry with perfect ease 1000 eights of 16 candle-power incandescently more than the engine attached to it will supply. Lorenzo too, which is very satisfying as it will enable us to be thoroughly sure of its reliability.

The Central station work here is progressing as well as can be expected. But the weather has recently been so changeable that we have been delayed considerably in laying the mains. As soon as the weather becomes settled the work will be very speedily concluded & then it will take a short time before we are able to start up.

Is there any prospect of old Bayly matters being settled up. McKeran wants

partly [illegible] and partly [illegible] from a track which can only be [illegible] very heavy [illegible] [illegible]

Very truly yours

[illegible] C.

Jan 31st

London, Ont.

Mr Jas Thorton

Dear Sir

will you please send the following 10 feet of sheet middle 5 ft long 5 ft wide and the third alike 5 feet of sheet middle 5 ft long 5 ft wide and 5 ft thick

as soon as possible and oblige

yours respectfully

Jos Ashton

per Thos Tyson

[illegible]

Jan 31st

Bandon. Ms.

Mr Jos Thornton

Dear Sir

will you please send the Flat bottom
10 pieces of Mast middle 5th long
8th wide and [illegible] thick. also a piece
of sheet middle 5th long 7th wide
and 5th thick

as soon as possible and oblige
your Respectfully
Jos Thorpe
per Thos Thorpe

4th Feb 2

Col. Geo. E. Gouraud
6 Lombard Street
London E.C.

My Dear Sir

I executed the European Telephone Agreement some time ago & sent it to Porter Thompson & Co who requested me to execute a second copy and the one first executed was not dated. I accordingly delivered them a second copy yesterday executed under date of 10th November 1881 by myself individually and also as President of the Edison Telephone Co of Europe Limited

Yours truly
Thos A Edison

4th Feb 2

Edwd H. Johnson Esq
57 Holborn Viaduct
London E.C.
England

My Dear Sir

You remember probably the Elevator in Stewart's Building 11 Queen Victoria Street London E.C. Mr Edison is looking for an Elevator having a series of cars low use on an Elevated Rail Road his idea being to run an Elevator by motor for passengers to ascend and descend instead of using stairs such as those used on the New York Elevated Rail Road.

When in the neighbourhood of Queen Victoria St will you kindly look in at No 11 & then give us the benefit of your opinion as to the adaptability of the Elevator there to the purpose above referred to.

Yours truly

Saml Insull

25th Feby 2

W. A. Painter Esq
Washington
D.C.

My Dear Sir,

The telephone decision I referred to is the one a copy of the judgment in which Johnson sent you.

The telephone reference in the decision I to you to look up and can find indeed Blackwoods pp. 509–510 Volume X Chambers Encyclopaedia Supplement 1892 Edition published by Lippincott & Co Phila & W & R Chambers Edinburgh.

Yours very truly

Wm C Dickson

Let me know when you will be in Pittsburgh & I will give you to see B. Rand Wood at once.

May 8th

Messrs Robbins
Gents
Please send us
one keg of Black Oxide of
Manganese and 10 pounds
Carbonate of Lead they are both to
be pure and commercial
[illegible]

P.S.
20 lbs Litharge [illegible]
10 lbs White [illegible] Lead [illegible]
20 lbs Bleaching Powder [illegible]
10 lbs Chlorate of Potash [illegible]
Please send the oxide of [illegible]
and the bleaching Powder in either
glass vessels or tin cans
J.P.

May 8th

Messrs Robert Thompson
Newport R.I.

Dear Sirs, please forward
Potassium & Mr Fleming
you mean that to come
on the Steamer Queen
Mary for Fort Hamilton
Please pay his
Freight for this amount
and Commission and
add same to your
Your Obt Serv

Thomas [illegible]

3628

Mayor Eaton

Your memo of [illegible] inst.
As to Jebb's pamphlet arising [illegible]
matters are [illegible] should decide.
You say Purkiss [illegible]
want 50 of the shares returned
by us. Where are the shares [illegible]
not know they had been received.
Your remarks as to
Lawrence & Engines reminds me [illegible]
Insull paid Kew Bros 8x10's [illegible]
was Saturday. We received one of
them & as a favor let Moore have
the second one (to go to some place
where an Engine was badly needed
by Saturday) upon the promise
that we should [illegible] the new one
turned out. Moore broke his promise
took the next Engine & a number
of others. It seems hopeless for
Insull to go to him as he claims
to do nothing but promise only
with the object of not keeping it.
It is very annoying, I do say he
need not hurry us [illegible]
[illegible] curse [illegible] & [illegible]
[illegible] [illegible] for Eyes
[illegible] [illegible] for Eyes

will you see if you cannot make
known Resp. his promises in the matter
were so if you can get me another
D & so you will have which I am very
fain do soon as ready. He wrote
to me & S. about the
D & 10's as they seem to be just as
all them & it has to them
just the opportunity to what to do promised
Darell.

As to Defect Book Report with
ending 27th May,
Bars for Punch holders this has been
attended to
Paramount of Dynamo. This was attended
to long ago & Vail knows he can
get improved fan boards by ordering
them at Garrett St. This came out
has been recorded a number of times
so this necessary when Vail knows our
how to fix it & that the manufacturers
have attended to their part of it.
Hand levers. The added remarks
apply to this also

Thos O Kaiser

31st May 1

Major Eaton

Your memo of 29th to me
Edison.

You must either have mis-
understood me or I cannot have
made my explanation clear as to
Bailey's unknown the Swedish American.
What I meant to say was that
judging from the letters received the
other Directors took part in the
management as much as Bailey.
My impression was that Bailey was
no more than any other Director. I
notice however that lately letters
to me matters of detail such as
ordering stock have more frequently
borne Bailey's signature. I do not
think Bailey's & Batchelor's letters
would show any conflict in this
matter. Your information & Bailey
& Rau have been appointed joint managing
Directors would seem to confirm
your impression as to Bailey's time
being occupied altogether with Company
affairs.

Your memo. of 29th to me
personal Gaumont mentioned in
a letter to me some time back & which

if I remember rightly, I came upon
reading it that he was interested
in a plant to the Copper Lake Mine,
& I cannot remember having heard
anything more about it. I will look
thru the correspondence & if I see
& if I see anything I will let
you know.

As to machines chipper [illegible]
& Sweden I think it was in a letter
which Mr Pollard showed me
gentleman was some parties interested
a plant & I fancy Johnson did
as well. But this is simply a vague
idea of impression. I will write
Johnson & Jamieson letters to
through & tell them write you the
I am just going to write Jamieson
a letter asking him to keep us informed
on the matter. You should use the
benefit of his letters if they come

Saul Sewell

[illegible]

Messrs Drexel Morgan & Co
New York City

Dear Sirs,

I received from you today [illegible] telegram,

"Johnson cables Colonial jointly with Edison full authority sign under Waterhouse approval all requisite papers pending arrival formal powers this enabling Colonial Company to move at once" Telegraph as authority to act for you. We are now content.

to which I at once replied

"I authorise you cable Johnson authority sign all requisite Edison and Colonial papers under Waterhouse approval pending arrival formal [illegible]

which I beg to confirm & remain

Yours truly

[illegible]

30th May 2

Col Geo. E. Gourand
6 Lombard Street
London

Dear Colonel,

I duly received your favor of 4th May as to Arimond Perkins.

I had answered every one sent me as to this matter and have given all the information at my command. What more I can do I do not know, especially as Messrs Renshaw only ask in the most general manner for more details and do not specify what details.

As the correspondence stands I have done all I can and am now awaiting further letters from Western Electric Manufacturing Co they have written to Australia for information for me. The delay in getting replies is further extended owing to the fact that Mr P. R. Wells who has charge of this matter is managing the Western Electric Co's factory at Antwerp. Why do not you communicate directly with him

Yours truly
Thos A Edison J.

31st May 2

Col Geo. R. Gowen
Pendleton

My Dear Col,

Will you please write me weekly a newsy kind of a letter as to Electric Light Business especially. I want it to suit information for Bulletin which I send you as the case may be.

Yours truly
Geo. R. Gowen

1st June 2

Mr Francis Jehl.
Edison Electric Light Co
57 Holborn Viaduct
London E.C.
England

Dear Sir,

As requested in your letter of 15th May I have paid £5 being 5% calls on 50 shares in Edison Electric Light Co stock.

Please remit this amount to me also your instalment Receipts & I will get the payment endorsed thereon.

Yours truly
Francis Jehl

FROM
THOMAS A. EDISON,
No. 65 FIFTH AVENUE.
New York, [illegible] 1882

TO Mr Rees
EDISON MACHINE WORKS,
104 GOERCK STREET,
NEW YORK.

I cannot do anything about making charges until I get an exact statement of weight of all machines likely to be shipped.

The check I gave you today ($14,307.50) was made up as follows

Advance Paris 4 Dynamos		8000
" London 6 "		6000
7 250 Light Dynamos @ $1250		8750
44 Extra Brushes	.25	11
9 "R" Brushes	2.00	18
100 "Z" "	.40	40
		$14,307.50

Please send me an [illegible] receipted for the 250 Light [illegible] & Brushes and an acknowledgment for the two advances [illegible]

The price for the [illegible] 250 machines is $1250 f.o.b. Paris which we agreed to the London & Paris basis.

(We have all yet been able to make arrangement for any further advances from Paris but will do so as soon as possible).

FROM

THOMAS A. EDISON,
No. 65 FIFTH AVENUE
New York, ... 188

TO

EDISON MACHINE WORKS,
104 GOERCK STREET,
NEW YORK

The arrangement for payment for the machines for Boston is as follows:

5000	already paid	
5000	June	1st
5000	"	15th
5000	July	1st
5000	"	15th
7500	Aug	1st
7500	"	15th
10000	Sept	1st
$50000		

Yours of yesterday with bills just to hand. Will see you about them tomorrow. I was in the City Tuesday but learning by telephone that you were not at the works I did not go down.

Yours &c

Thos A Edison

The eight machines for Europe are made quite as $250 f.

1st June 2

Major Carter,

Your memorandum of 30th May in a. do not come to hand. I substitute your remarks in the Bulletin also newspaper cuttings.

The most of our time for the last two years has been devoted not to making a large but in making a camp of high resistance. It will be a long time before we can with our present scheme be able to make a high resistance camp. Going to say that has been at work cooling their cartridges to lower deflects and this brings the resistance down but do not say anything about this in the Bulletin.

I am in favor of removing open the patents in Bridge and putting up the banners there instead away. Never mind the Dolby will inform us.

I shall be to Rear a copy of the Large contract here for my information.

Yours

FROM
THOMAS A. EDISON,
NO. 65 FIFTH AVENUE,
New York, [illegible] 1882.

Lucille Eugénie Edison
Paris France

Darling

I was to write the morning cable from our Nice 30.82 Send me sample only one hotel each picture, send difference further advance in-cable, first week daily delivery all great school. "Electrique"

I hope you received the sample pictures of each hotel & the photos I sent yesterday in a day or so as to date of permanent engagement.

I want you to understand that any conditions who may propose to make the necessary arrangements on the Long Contract Station Bureau will naturally get the answer false fixed as soon as I receive Charles Reed & Mr. Mason money to cancel your Engagement. I do not know what the Practice may be in France but I am sure that no step of any characteres in this contract were made without part of the chemists. I am now waiting for you cable. Mr. Mason's attorney protection was made for expenses at the week postponement. The profits in exclusively

[illegible] & the work to me is great
that I cannot possibly afford
to sell my money if for so [illegible]
the Companies here & the Eastern
Company have not raised the
slightest objection to advancing on
my work.

The case of the small machine
is different. They are quickly sold
and consequently the money required
to carry them less & I can afford
to wait for payment till the amount
is made

Yours truly
Thos A. Edison

THOMAS A. EDISON

Edison Elec. L. & P. Co. Limited
Coleman St
London E.C.

Dear Sir

Confirming

I also 15 certain tables as follows from your Mr. Wm. Wise Bile Company Ship Dresden Bundaua Lee two and three quarter size Blue five Bundaua Lee five size Kaccaway Lee three for each kind spare Also from now came ago "Want of Light" candle bowl Blue lamps burning ne.

I now time Shipping per Stiliana two hundred fifty eight machine dem burning thirty two candle lamps for shipment per ship Sailing fifty and Bundaua candle consistant with ship tube they waits here.

I am fully alive to the importance of sending good high candle power lamps but as only yesterday were we able to start our Lamp Factory at last received no new Dynamos. The dead of my parcels Start up consider that I do not think Mr. will after this be any delay. So we can turn out 32 candle lamps as much as we can Mr. If I do now candle lamps we propose sending (Pat)

for and immediate use.

You say nothing about anything and enclosing boxes in which I have to build to Phone instruments. Send me a couple of each but mark them so that in the future you will be able to distinguish exactly what you send. If you do not approve of the address cards as I designed them

Yours truly

Thos A Edison

FROM
THOMAS A. EDISON,
No. 65 Fifth Avenue
New York, [illegible] 1882.

TO
C. A. Francis Esq.
[illegible]
London Eng.

Dear Sir

[illegible] "[illegible] Jan. 82 "[illegible] important have fitted on Mundia candle lamps completely, can you ship five Mundia [illegible]"

From now June 1st. Have no the Mundia are fitting lamps don't understand cable hasten economy lamps reply.

From now June 1. Jany 5th Shipping office [illegible] contain eight candle lamps.

Sam county we [illegible] [illegible] unable to send you [illegible] lamps promptly. Although we have been pushing the work as quickly as possible we were only yesterday able to start up at full speed.

We will send some [illegible] lamps very soon now but you can be forget that [illegible] lamps here to [illegible] experimental [illegible] [illegible] [illegible] necessary [illegible]

Yours truly
Thos A. Edison

June 30th

Thos. A. Edison, Esq.

Dear Sir:

I have examined Major Cullen's letter of the 28th inst. to Major Eaton relating to your arc-light cases.

In one of my first talks with you after your return from Florida, I called your attention to the fact that cases 365 and 370 had been rejected upon the ground that they did not describe a perpetual mechanism.

You explained to me then that the lifting magnets each case (No. 365 and No. 370) which being of the same resistance as the permanent magnet, were intended to have a greater weight of copper in its coils, so as to overcome the opposing magnetism when carbon electrodes were touching and establish the normal arc.

This additional explanation which did not appear in the original specifications, made the operation of the lamps clear.

At that time — nearly two months ago — I gave this explanation to Mr. Seely who had the arc light cases in hand, & I gave nothing to the examiner which

4001

6.

I think he took a note of the point, but whether he did or not he will probably remember the fact that the opinion was given

Yours truly
Richd. N. Dyer.

June 18 [illegible]

John Mercer Esq.
[illegible] & 20 Wall St. New York.

Dear Sir:

Mr Mark has been out here today [illegible] the examination of the witnesses Domestic [illegible] writer of the letter, and has [illegible] to come to the Mark and give his [illegible] We shall commence the [illegible] probably at half past [illegible] first. Mr Brown [illegible] the witness in [illegible] the matter over, decided that Charles Ayer, [illegible] who worked in the shop at the time the [illegible] made, might know some thing about it.

Can you get me his address?

Yours truly
Rich. N. Dyer.

June 8.

Commissioner of Patents.

Sir,

On May 28th 1882 I sent by express a package containing three applications of Thomas A. Edison Nos 419 and 418, for Impt in Process and Apparatus for Generating Electricity and Impt in the Art of Electrical Decomposition.

I have not had any official receipts in these cases, and would like to know if they have been received by you.

Respectfully

Richd. N. Dyer

Telegram

Chas. B. Rocap

Edison Machine Works

82 10th Goerick St

New York

Send duplicate letters

letters numbering from

Thos A. Edison

D. H.

401

Telegram
Recd

June 8th

Commr of Patents.

Sir,

On May 28th 1882 I sent by express a package containing the applications of Thomas A. Edison Nos 419 and 418, for Impt in Process and Apparatus for Generating Electricity and Impt in the Art of Electrical Decomposition.

I have not had any official receipts in these cases, and would like to know if they have been received by you.

Respectfully

Richd A. Dyer

June 2

5th Jany 2

Fifty seven London
Conversation with
Pulleston disclaimed
personal liability but
said would try enable
him get money back
Will keep promise.

Heraclite Paris
Letters avail your
arrival settlement Contracts
In favor your demands
Will stand big fight to
get it
Edison

Mr. Nurney
Menlo Park
N.J.

Dear Sir,

Referring to your letter of 3rd I beg to state that the reason I requested the Supt to allow my business to pass through the Depot is that my cables and telegrams were bulled which was a very serious matter to me as the most important part of my business is conducted by cable.

You must please yourself about resigning the management. Of course as long as you hold it, I shall continue to pay you $5 a month

102
Thos A Edison

Chas L. Dean
Edison Machine Works
104 Goerck Street
New York

must put on more men
and get out twelve ~~two~~
D. R machines ~~weekly~~
& more big orders coming
from Europe. Will be
over tomorrow

Thos A Edison

5th June

Pettypiece London

Thirty two candle lamps were hand made and therefore poor. Do same with my oriental Telephone shares as with Gowans Instructed Gowand deliver good stock except thousand shares.

Inside London

Deliver Johnson in his name my oriental telephone shares except thousand shares which hold subject my order

6th June 2

My dear Eaton

Your memo. June 1st I enclosed you herewith. Returns notes & enclose you a letter addressed to me by R. N. Boyd on the same subject.

I should not say anything to anybody about that Canadian Patent expiring especially to the Frame Co.

I do offer to put up a Building for Anderson some time ago. Of course I would like to get rid of the trouble but if essential I will do it.

I will see what a list of the things to be taken away from here belonging to the Light Co is supplied you in due course.

Your memo of June 2nd 1882 Sackett had already written London for exact information as to the Coffee Thursday Twenty Pounds. The only way to get this information is for Sackett to keep up a personal correspondence with London & other of his London friends. He does this as far as is possible for him

He is at all times willing to give you the benefit of any opinion he may get on this subject.

Many thanks for the copy of the Slater contract.

I want another & a second just as early, as possible. I think that Horne should be matured & left come home to get me this considering the way he has treated me about the engine so often promised & just ahead. What I impress on him is that he promised & thing & did another.

I took up the question of the Bill on Patent rights, not before the Senate, some weeks ago & having read it through carefully I wrote a strong letter to him (that he might use it if necessary) he has great hopes of passing the Bill. He wrotes me this & sends as follows on this subject & the Report from the Department.

Washington D.C. 8 Dec

Dear Mr Barron

The copy of the print of this

[illegible]

[illegible]

[illegible]

6th June 2

Dear Raff,

Your note of June 2nd came to hand. I would not undertake to light a train from Secondary Batteries but I would do so with a small engine & dynamo placed on the front of the Locomotive & taking steam from the Boiler

Yours truly

Thos A Edison

6th June 2

C. E. Grieve Esq
c/o D & Co 20 Cortlandt
23 Murray St
New York

Dear Sir,

Referring to your of 2nd Mr Edison says that Mr Upton's article is all right but he questions the utility of putting it in the Scientific. He says he does not think one person in a thousand will understand it.

In sending here your bill for the copies of "Incandescent Light" you let Please send me a duplicate & I will get Mr Edison to endorse it & then you can apply to C. Good 65 5th Ave for pay[illegible]

410

6th June 2

A. Pastor Esq
Sherman Hotel
New York City

Dear Sir,

Referring to your favor of June 5th I do not know when I could see you in New York. If you wish to see me you had better come out & make part of when I am to be found at almost any time.

Yours truly

Thos. A. Edison

6th June 2

John Kruesi Esq
Electric Pole Co
N. Y. City.

Dear Sir,

I have arranged with Claudius Max to go to Troy at $100 per month & I do well approve to pay this & his expenses. Please pay him from yesterday up to the day he sails at the same rate that he has been paid here. Get him a ~~first class ticket~~ cabin for Paris that is cheaper to Havre & rail to Paris & charge us with it & also what wages you pay him.

When will he be ready

Yours truly

Chas Kruesi

6th June 2

Wm A. Graves Esq
Albany
N. Y.

Dear Sir,

I duly received your letter of 1st pd which accept my thanks.

Mr Edison would very much like to be kept posted as to the progress of the bell

Yours truly

Saml Insull
Sec.

6th June 2

E. P. Gilliland Esq
Indianapolis
Ind

Dear Sir,

I have your letter of 29th inst with enclosures for which accept my best thanks.

If I want any further information I will let you know

Yours truly

Thos A Edison
P

7th June 9

Dear

Please ~~[illegible]~~ dont forget that you must only order stock just enough in advance so that you will have it when you want it. In all cases order in such a manner that it will be delivered from time to time as you will want it - I want you to use great presence of judgement in ordering so that we shall not be stuck with an immense mass of stock as we were in the Z before we could use it, of course we ordered the Z stock in expectation & it was all right but I want to prevent this now so that we shall have to carry only just enough stock ahead to get out the machines for which we can get money on

Please furnish Car Motor & Shop - our Car is here

Yours

June 8th 3.

Mr Augustus Weber,
512 W. 49th St. N. Y. City.

Dear Sir:

I write for Mr Edison to inquire if you received anything about a certain District Box that was made at the shop of Mummy and Edison in Newark in 1873 or '74. It was a rosewood box about 6 inches long, 4 inches broad and 2 inches deep. It had a steel arm projecting from one side with a hard-rubber handle on it. The box was worked by pulling down on the handle, which wound up a spring. When the handle was released the clock work initiated an operation in front of two spools on a permanent magnet and sent magnetic currents over the line.

If you do not remember the operation you may recollect the appearance of the box. Mr Edison thinks Kohler did the work on the mechanism.

Please reply at your earliest convenience.

Yours truly
Richd A. Dyer

Jan. 28.

Jan. Eagan Esq
Pres. N.J. R.R. Sta. Newark N.J.
Dear Sir.

I write for Mr Edison to inquire if you recollect anything about a certain Electric Bar that was made at the shop of Murray and Edison in Newark in 1873 or '74. It was a rosewood bar about 8 inches long, 4 inches ~~wide~~ and 3 inches deep. It had a long steel arm projecting from one side with a hard rubber handle on it. The bar was worked by pulling down on the handle, which wound up a spring. When the handle was released, the clock-work vibrated an armature in front of two electro magnets on a permanent magnet, and ~~an~~ magnets ~~connected~~ the line.

If you do not remember the apparatus, you may recollect the appearance of the bar. Mr Edison thinks Kohler did the work on the mechanism.

Please reply at your earliest convenience.

Yours truly
Rich'd N. Dyer.

2

Jan. 28

June 2

Calvin Goddard Esq
Secretary
Edison Electric Light Co
65 Fifth avenue
N. Y.

Dear Sir,

The enclosed a/c from Geneva for 570.75 has just come to hand.

Mr Edison says it is payable by the S.E.R.R. and we should be glad if you would send a remittance for it immediately.

The Lociet Genevoise state that they have rendered the a/c but it certainly has not been received during my regime.

Yours truly

Sam'l Insull

I am sorry I was unable to keep that appt yesterday at 2 M.

June 2

Edison Lamp Co
Harrison
N. J.

Dear Sirs

Your favor of 6th ac. Foreign orders 2d came duly to hand.

I fail to see why the mistake should have occurred by the order being given verbally as the cable instructions both parts for both cookers and lamp were required were explicit. Anyhow the counter order could be no mistake & I would suggest that in the future the cables should be followed rather than the former

Yours truly

Thos A Edison

June 9th 1882

Telegram

H. C. Argue
Metuchen
N. J.

Can you move Lamp Factory Engine to day answer
T. A. Edison

B H

9th June, 82

Dear Sir

I have read the article "Edison to Quench" which seems all right except that I am put down as the author whereas the article is the result of an interview with me. I would prefer that it be stated that it is as I make it a rule not to write anything for the Press

Yours truly

Thos A Edison

Lyman Abbott
Christian Union
30 Lafayette Place
New York

June 9th

Mr. P. B. Shaw.

Dear Sir

Enclosed please find estimated cost of proposed Railroad. It is based upon the actual cost of our road here and will come very close to actual cost. The figures for Central station are without the building but including Boilers & appliances Foundations Engines & appliances Machine, Shaft & Dynamo & appliances. and are exclusive of Royalty, and Profit. The same is true of the prices of Cars & Motor. (I do not know the amount of freighting you will require) I simply state the prices cost. Boilers Engines Dynamos and appliances ready for estimated at $158. for H.P. If there is any thing else you wish to know. please let

Yours Truly

Chas. T. Hughes

June 9th 2.

Estimated cost of Railroad. 3½ miles in length. with all appliances.

Steel Rails 34 lbs per yard. Ex. in Jersey	$10.600
Spikes	.300
Plates for protecting Insulation	.600
Insulating Rails	1.000
Electrical Connections	.300
Cross Ties 6" X 6", 5'6" lng. of Pine	4.000
Fish Joints	.775
Grading	2.500
Fencing	
Track Laying	2.000
Central Station with 40, 40 Engine & Dynamos	6.320
Sample Car with Motors @ 2,500	10.000
Labor on Rails	.200
Total.	$38,595

Fencing such as will be required by law may be estimated at $100 per linear foot.

The Central Station Estimate include spare Engine & Dynamo.

Yours Truly
Chas. L. Coughlin

June 9th 2

Telegram.

J. L. Hall
Cliff St
New York City

Send immediately by Adams Express one ten by twelve inch furnace door and frame.

T. A. Edison

June 9 - 2

Telegram

C. L. Dean
104 Grand St
N. Y.

Hire a couple good instrument makers for me at Menlo

Edison

Bergmann & Co
108 Wooster St
N. Y.

Hire a couple good instrument makers for me at Menlo

Edison

Telegram

12th June 8

Chas. E. Dean
Edison Machine Works
104 Goerck St
New York

Your experimental G
machines must have
armatures with
insulated bolts

Edison

T.A.H.

Menlo Park June 12 8

Thos. J. Hanford Esq
4 Southampton Bldgs London W.C.

Dear Sir:

I have your
several letters, but have been
very busy of late of N.Y.
cases, and seeing nothing
especially urgent in
them have laid them
aside for a short time.
I now expect to be
able to reply in detail
in a few days.

Inclose the complete
specification and blue-
prints of drawings in
English Case No. 48 - Improv
in Electrical Railways
and Tramways, and in

June 10 8

Major J.F. Cowles,
Dear Sir:
I have to
furnish the accompanying
applications, signed & sealed —
Nos H25, H27, H28, H31, H32, H37,
H38, H39, H40, H41, H42, A.D. H44
Also the assignment of
Mr Edison in the Belgian
case.

Yours truly,
Richd. N. Dyer

Menlo Park June 12 '78

Chas. Batchelor, Esq.
Soc. Industrielle & Commerciale
Long. Sur. Seine - France.

Dear Sir:

I forward herewith the rectification blue-print for the drawing and power of attorney in Continental Case No 38 on Railways.

This case is to be taken out in France only, and as communication from Mr. Brady, and is not the assigned Company one, at least for the present.

I forward it directly to you, instead of to the Compagnie Continentale Edison, for the

Case Therefor.

The papers for the corresponding Continental Case No. 38, I have this day forwarded to Mr Batchelor.

Yours truly
Rich. N. Dyer.

Mr. Dyer. Please take your part the contract of Contract in the corresponding English case. You will find the Continental Contract in Mr. Batchelor's hands somewhere with Mr. Mr. Batchelor's copy of the Continental Contract.

Yours truly
Robert Dyer

Mr Jno Eaton
65 Pall Mall

12th June 82

The reason you remarked, have remained unanswered for some days past is that Mr Snell's time has been so much occupied that he has not been able to attend to correspondence.

Yours June 6th. I see no reason why we should buy Jno. D. Mullens patent 258795.

I believe with you that it would not do for us to sell licenses to people with the idea of their dealing in such licenses in a wholesale manner. It would damage us considerably.

Yours June 8th Snell will take up the European affs as soon as he gets a spare moment.

As to measuring the candle power of Lamps, one gives 16 candles in every direction, the candle power of one light (Prussian) measured by the French method is quoted at four times this that is they take the candle power in one direction & multiply it by four

when there is a good or an arc Light it gives about 200 candles in all directions (the Brush people would call it 800). A gas expert who tested the Brush Light in the Park at Cleveland found the light averaged 200 candles by our method of measuring.

As to winning Building here for Anderson & Lee in "the" one can not the 800 Lamp Factory. Let Clarke take it in hand & see good & isolated meth for winning.

As to the material here [illegible] Light & I will have it ready whenever you want & the Hurt can go with it to guide & help [illegible] Jones & Jackson made a mistake about price of [illegible] to be quoted to Logan. [illegible] each [illegible] 800 Light machines there & they are sold at $800. Jackson made the same mistake in quoting a price to Nassau

Left

Mr. Potter's proposal seems to Lord Milner & American Co. has not come to hand, nor any of your other enclosures left to big James of June 9th.

I think we had better pass the German contract & sign the Deed of Settlement but nothing to be done except approved by Milner.

I would refer to the Moll report & leave to report on. When the report can be submitted to me then I will say whether we are to buy anything. I have not the slightest objection to Lord or you holding patents on matters of detail in connection with Equipment as long as they do not attempt to cover up under them that I may want to.

It is much better to encourage our own people to work on details which I can never expect to reach than to leave them in other (outsiders) to work on & perhaps we then will find there will be a great demand for them & I will say

Regarding Hannington I understand that Stringer (engaged by Michell Vance & Co) made some inventions in fittings and asked Hannington to put up for Patent for which I understand he did. Now do you think it is a great deal better that in the case of outsiders who convert these things, to have interested with them our own people who are affiliated to us in such a manner that we are sure to derive benefit as the inventions would be used in our interest. Furthermore I do not see how we can prevent, or what right we have to prevent our employees from inventing their money in Patent & opposition. Rather I think we should encourage it. I myself have been in the habit of encouraging the working up of ideas preceding the claims are not such as to cover principles. Inquiries Incell & Dyer have submitted these reasons with things to me in every case. In one instance there

L.A.E.

claim involved a broad principle. I applied for the patent on this myself & left them to work up the detail for applying the principle so that we really have control of the broad principle & can thus regulate the royalty to be paid to the patentees by those who use the device if necessary. The various devices will tend to further the demand for current which is certainly to our interest. Now Ewing's invention (Ayrton & Perry are interested in it) for the Railroad which proposes for the heating of the Incan by a carbon resistance will I think be of use & will consequently increase the demand on us for current. I think it is a very good thing to have our people work up these things as they do not do it outsiders well as there are innumerable contingencies which current can be applied & I certainly can never afford to go into these matters as they are [illegible] with my work.

Mott's case is different. He took advantage of his position to work up applications to cover principles (an insight of which he got by making my drawings) & so get round my invention. The case to which he refers when a patent was hurried to head off Mott is well known to me. Dyer & Snow told me of it & it was my application that was hurried forward - thus (1 & 2) being confined to the case of this application of this principle & to a specific object which I have in view.

My time is altogether too valuable to allow of my going out the City to attend conferences on business orders. Let us get the model machine (120) finished & then we can talk about what alterations shall be made - I think this will be the thing when the time comes can be done by correspondence. Dyer is too busy to attend conferences as well as myself.

The engine I spoke of is expected from London

Lab.
7

Go until I can get another 8 x 10 which please hurry up
Joint endeavours with Memo 10th June not to hand.
Do not make any contract with Morse until he has shown me drawings which will lead me to reasonable expect something as the outcome of his work. He can lose nothing

Thos. A. Edison
J.

Lab.
7

Go until I can get another 8 x 10 which please hurry up. Your enclosures with memo 10th June not to hand.

Do not make any contract with Morse until he has shown me drawings which will lead me to reasonable expect something as the outcome of his work. So far he has nothing

Thos. A. Edison
J.

Telegrams

E. L. Dean
104 Grand St
N.Y.

Do not forget to hire two instrument makers for me, advertise if necessary.
Edison

S. Bergmann
108 Wooster St
N.Y. City

Dont forget to hire two instrument makers for me, advertise if necessary
Edison

June 12th 1882

Drexel Morgan & Co
Wall St
New York City

Johnson & Baker & Edison's agreement
Respecting
N.Y. Co.

148

June 18 2

E. G. Dean
182 Forest St
N.C.

Mr Thomas Van Vast of Brooklyn time on testing our Machines, arrange for all his overtime.

Edison

E. W. Vanderbilt Esq
100 Liberty St
New York

June 18 2

Dear Sir,
Referring to your memorandum with respect cutting I should it may be possible to refine oil by means of electricity although I do not remember even having heard of experiments on the subject.

Yours truly

Thos A Edison

18th June 2

Mr David McCoe
with Mr Hearty Bros
2nd St & Fourth Ave
N. Y. City.

Dear Sir
Please send me to above address C.O.D. 201 Double Earphone with short tubing extension
Yours truly
Thos A Edison

18th June 2

My Dear Lowrey
You said you would like Painter have his proportion of Lowell stock out of your allotment.
He seems very cool at not hearing yet if I speak writing him on the matter I should be glad to know if you are still willing to do this.
I certainly think something should be done for him as he takes a great deal of trouble over matters for us.
Yours truly
Chas

Rubber companies of Bellville
Kalamazoo

Clarke

Will you please have a blue
print made of the Chemkrife
regulator with a few descriptive
of it with sizes. reg of carbons
and how you use them & for
what purpose Send to
Gatchelor. Thank you should again
[illegible]
[illegible] for Exchange
Thea with B.

June 14

Major J. H. Carlin
Dear Sir:

I send you herewith a new drawing and specification in case 373, and drawings and specs for cases 446 and 447 which are divisions of case 373.

These specs have all been copied, and press copies made, which I also send you.

Please bear in mind that the rough specs of each delivered on the 10th inst, which were written by me.

Yours truly
J. Richard Dyer

June 14th 1887

Telegram

Goodman
63 Park Row
Washington City

Have this design
from Lemmon.
Jno. A. Evans

X.X.

15th June 2

Mr Reep
Edison machine works
N. Y. City

Dear Sir, Please figure out the cost net of the various sizes & forms of armatures I wish to see what price we can quote for them to Walker & Pratt f.o.b. New York.

We have to-day quoted to Mr Oliver's representative
$550 for 7 machine 5 1/2 ft
350 " " 3 "
f.o.b. New York. This discount is strictly confidential

Yours truly
Saml Insull

15th June 2

Messrs Bergmann & Co
108 Worcester St
New York

Dear Sirs, The Edison Illuminating Co. Colonial Light Co. need a regulator lamp and also a lamp to burn under water. The latter please get up for them yourself. I send you by express an infinite regulator lamp. Please put this in working order and then apply to the E. I. C. & Co 71 Broadway for shipping directions. Be sure as well as the lamp to burn under water. Bill same to E. I. C. & Co.

After you have fitted this please make a regulator lamp for 66 Fifth Avenue & charge same to Colonial Light Co.

Yours truly
Saml Insull

15th June

Mr Rand
Edison machine works
N. of City

Dear Sir

Mr Snaull complains that frequently he has been unable to get information from the Works which he is obliged to have for the proper conduct of my business and especially instances particulars about all machines shipped which he asked for on 11th Inst. He says the statement which came to hand on 12th June is not at all what was asked for and is absolutely of no use for the purpose for which it was [illegible]. I wish it to be under-

15th June

Chas L. Desmarais
Edison machine works

Dear Sir,

I think that George Jennings wages should be paid for the time he was sick, for a week or so to come. If we do this we shall doubtless save ourselves trouble & annoyance

Yours truly
T. A. Edison

[illegible] whatever data
of any [illegible] Mr. Lowell
may call for is to be
supplied to him, as quickly
as is possible. The non-
compliance with his wishes
in the particular case
in question is likely to put
me in a very false position
in his light.

Yours truly
T A Edison

15th June 2

Francis R. Upton Esq
Edison Lamp Co
Harrison
N.J.

Dear Sir,

I think the [illegible]
desires to see the [illegible]
stable.

I shall be glad if
you will arrange for
to have the use of
Yours truly
T A Edison

16 Jan

Newyorkoff mfg Co
Providence
R.I.

Dear Sirs
Referring to your
of 18th I was extremely
sorry that I was
unable to avail myself
of your kind invite
for yesterday but I was
detained here giving evidence
in a patent suit
Yours truly
Thos A Edison

16 Jan

David A Pointer Esq
Washington
D.C.

My Dear Pointer
Received
let you have your
Dividend Stocks and
his allotment as
enclosed letter. I will
in New York tomorrow and
will see Goddard and
much you are interested
to & what there is to
pay on it & will then
write you again
Yours Sincerely
Saml Insull

P.S. I leaves Liverpool
tomorrow on the Alaska
(alias Greyhound)

10 June

C. C. Moore Esq
P.O. Box 901
New York

Washington D.C.

Dear Sir,

Referring to your favor of 14th inst. I beg to say I will have Jehle's paper for you. You will hear of it soon.

Yours truly,

Saml Sewell

10 June

C. W. Woodcraft Esq
703 Pennsylvania Ave.
Washington D.C.

Dear Sir,

In reply to your favor of 14th I beg to state that I have used your File Holder on my office for some time past and consider it very well suited to the purpose for which it is intended

Yours truly,

Phos Frazier
per Saml Sewell
Private Secy

18th June

Upper Rates,

Your memo rec'd incl.
I suppose we will have to see
Dickinson in the Swan Case
and I would have Betts in it if
possible as well. It would be a
good idea to have Mr Lowrey in it
as well on behalf his certificate in
case he cannot go to appear.
My account with the
European Co were sendings into a
certain date which you
kindly to do so to make any
objections of mine
If it were simply answering
an account from my books I
be could delegate that to someone
else as it is it must wait till I
himself can get at it which will
be early next week I expect.
I think 20% Stock & 8%
cash would be fair terms
ask of Shaw for Rail road.
I think we should be
ready to sue both Swan & Main
immediately Swan starts up
for him. When we have decided
then we can let better fight Main

as at present against the
defeat of Swan still [illegible]
[illegible] is in the [illegible]
I fancy however that if [illegible]
go on at the present rate [illegible]
will treat them so.

I think you should
[illegible] with Spencer Trask & Co.
Albany partners (Graves) for [illegible]
right away) come what on the
[illegible] of the Stages Contract
& arranging for them to [illegible]
[illegible] on the other Cities
[illegible] enriched by a certain [illegible]
How does this strike you. I [illegible]
separate Cos for each plan [illegible]
be formed.

[illegible] memo 14th inst. I still [illegible]
it will be time enough [illegible]
a Contract with [illegible]
the present a lamp [illegible]
opinion will work [illegible]
on the lamps & may [illegible]
something that will [illegible]
course of the [illegible]
[illegible]
does [illegible]

an unknown quantity. It may claim that the current could be accounted for in the profits.

Dyer is working up a set on Secondary Batteries.

I certainly think that Clark should begin his preliminary work on the second distract. It will enable us to keep our men busy.

I should say have no thing to do with Aurora's patent. It is waste in a Dynamo is equivalent to saying the Dynamo is a failure.

As to Peck's letter pro and the commutator blocks have started up. The reason why the lamps burn at the works is that the candle power is the same than at the other end due to the fact that there is a considerable [illegible] motive force at the [illegible]. It would show that the candle power at the [illegible] is [illegible] in a [illegible]

& thus reduce the electric motive power & the breakages will cease

Johnson will be home in ten days and he can tell you a good deal about his engines I do not know if one new that would suit the Chicago people.

Please order another 8 x 10 Cummington engine for me: If you will hardly business the engine up I will consider it a favor

As to the bid to the Dem. & Republic I think five of our lights well distributed will give better satisfaction than one arc light.

Note what you say about Parvin's brother. The former is a small one I hope the latter is the same.

I think it is rather too early to give Mr E. Anderson a list of houses to be built up. About a week before the start up will be quite time enough. Deal mean with the wire

already [illegible] in
[illegible] being [illegible] are
[illegible] to have the light found
most [illegible] [illegible]
[illegible] in Canada. Mr. [illegible]
[illegible] to the Mine since 1878
[illegible] to the Lamp [illegible]
[illegible] to say about it is [illegible]
[illegible] in Elizabeth Mex
[illegible] or [illegible]

I think something might be said in the Bulletin about the various precautions in operation with our explosives being in the hands of the Corporation officials

Give the matter some [illegible] Clarke back to him, [illegible] to read a little more and the end find he is entirely mistaken [illegible] the average power of the Arc light with the plate on is 2500 candles & each other [illegible] different [illegible] by [illegible] experiments others to this effect. The best effect obtained on the Fraser Gold & Mineral Rights with the Jablochoff Candle was [illegible]

June 15th 2

Gentlemen,
Clerk of Patents
Washington D.C.

Dear Sir:

I have received Mr. Johnson's letter of 7th inst. including five English patents marked to show the disclaimers which it is proposed to file.

Inasmuch as from Mr. Johnson's letter that when this reaches you, the disclaimers will have been already filed, they may be entered as of date of receipt, and will be so entered and recorded, if before the issuance of patent of prime importance has been duly noted.

The following will show my views upon this matter:

No. 578 dated 10th February 1880.

The proper disclaimer in this case has my approval, with the exception of the exclusion of the fifth (5th) claim. This I think a mistake of grave importance, and a search of the charts

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(2).

is in the direction of future improvement in heart of lighting by electrical incandescence.

The working of lamps of this kind impell. The use of several separate carbon [redacted] connects in series in one lamp, seem quite sense in new and it is certainly very simple. The invention would seem, to be sufficient, when we consider what it make such a lamp successful the process of manufacturing incandescent carbon conductors must be carried such a state of perfection that all the conductors will have the same and radiating surface, and will require the same number of ampères to produce a certain degree of incandescence.

This is a difficulty which we met with when carbon conductors to lamps are connected in series and does not apply to conductors of lamps worked in multiple arc. Lamps may vary in radiating surface, and nevertheless, if they give the same light at the same volts they may be worked in multiple arc. We

3

[illegible] together with lamps in series, since these same lamps that would give the same candle power at certain volts in multiple arc, will show great differences in series, and while one may be at normally high incandescence another lamp may only give a candle power of light. This imperfection in carbon conductors would greatly diminish the life of the lamp having several conductors in series, and if in non-normal voltages would make such a lamp very imperfect and practically valueless.

Prior patents however shall show this can be done, and explain the proper methods and materials for producing perfect carbon incandescing [illegible] this patent then would be tributary to them.

The following firm make a good illustration of the practical difficulty of working carbon incandescing conductors in series before referred to:—

If we had, for instance,

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lamps, each giving 16 candles at 100 volts; one might have a resistance of 100 ohms and a radiating surface of say 100, while the other might have a higher resistance, say 110 ohms, but a smaller radiating surface, to compensate for the increased energy due to the higher resistance.

If these two lamps were put across multiple arc, both would give 16 candles, but the 100 ohm lamp would require, in round numbers, 4400 foot lbs, and the 110 ohm lamp only 4000 ft. lbs.

Now, it will be seen, that, if it is attempted to put these two lamps in series, with a pressure of 200 volts on the line, the 100 ohm lamp will only get 4000 ft. lbs and hence will not give 16 candles, while the 110 ohm lamp will get 4400 ft. lbs, or 400 ft. lbs more than is necessary to give 16 candles.

In view of the facts I have stated, I think it will be found that the invention set forth in the 5th claim is supported by sufficient in-genuity to make the claim.

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a valid one.

The 6th claim stands somewhat although not as strongly upon the same footing. However the device set forth in that claim is not in my opinion whacky practicable. I do not therefore seek that this claim be retained.

If the 5th claim is retained, I think the following should be the only matter erased on 5th page of affect: In line 9, erase word "I have discovered that"; also erase commencing with words "In one form" in 26th line, through the 31st line.

On 7th page erase sentence commencing on 5th line, and inserted "Figures 6, 7 & 8 show a lamp in which the resistance is increased by the use of several incandescent arcs in series." On same page, erase commencing with 20th line through word "Self" in 30th line.

No. 1385, dated 5th April 1880.

On going over the whole proceedings in this case, I cannot see that any serious mistake has been

6)

made. As I understand, plates have been used in the case of the Gramme machine, but since the claim retained is specific in its nature I think it should be held. The U. S. Patent Office referred to in this connection to Dingler's Polytechnisches Journal vol. 228 pp. 587 and 588. Whether this journal formerly published in England or not, of course I do not know, but I wish to call your attention to the matter so that you will have all the light that can be thrown upon the subject.

No. 3880, dated 20th September 1880. I am satisfied with the claims that are retained in this case. I wish however to call your attention to the 11th and 12th claims which have been erased. The 9th and 10th claims (both retained) cover the construction shown in figures 16 and 17, while the 11th and 12th claims cover that shown in figures 18 & 19 including the fact that the description of figure 18 & 19 is accurate

"/

to remain, and that no objection has been advanced to the 11th and 12th claims, I am led to believe that it was not intended to cancel both of those claims, but that the 9th and 11th or the 10th and 12th were intended to be cancelled. If that is so, I would prefer to retain the specific claims, the 10th and 12th.

On 7th page of the specification, don't you think the words "or feeding" should be inserted before "conveyers" in the sentence in the 14th line?

No. 3964, dated 3rd September 1880.

It strikes me that claim 7 might remain in, as a feature of the steam dry cans. The claim is a limited combination, the essential feature of which is the non-magnetic support. If it is retained, the specification (14th) should be amended somewhat differently from what it is marked.

I would like very much to see the 6th and 9th claims of this patent maintained, since they cover a highly important, and in my opinion,

+

novel construction; but my views on this subject having been fully exp. evidence, I cannot do otherwise than submit to the judgment of the legal advisers of the Company

No. 763, dated 25th February 1881.
In this case, there nothing to change in the proposed disch.

Yours mts.

Thomas A. Edison

Yours &c

Chas R. Clarke Esq
6 & 8 Fifth Avenue, New York

My Dear Clarke,

Yours of 8th. I think it would be a good idea to have the drawing made for the Bruce Holden Arms.

I will talk to you about your letter of 9th.

I shall see Col. [redacted] about the Bills enclosed in your of 9th. Your ideas on the subject are altogether wrong.

As to yours of 9th we will continue to make the new forms of Bruce Holden's arms as we are now doing as there may be an improvement made that will require the slot if you do not like it you can easily order them to fill in. Moreover we can do it in consequence of the [redacted] days howl for a slot in the upper [redacted].

[redacted] weather on the eve of [redacted] was [redacted] [redacted] [redacted].

the change you suggest for a one hole on the cap for clamping the wires.

As to the firm washers on the end of the coils it is very certain that it is necessary to renew them. These have been in service till lately & we have kept the wires tied down so that it will not occur again. Each coil costs $600 & I think it can be easily dispensed with.

Yours of yesterday. Of course we must have a Legal but it is a very delicate matter - ask Dean Grant Lewis - he was a friend of him. The more I see of that chap the less I like him. He acts as if he meant get him only to cut & you should make very careful inquiries of men who know about the Station. Hard & perhaps another can be spared from 4 p.m. to 7 or 8 p.m. with you [illegible] upon me.

[illegible] you would [illegible] part pay.

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

J. W. [illegible] Esq.
Kearney
N.J.

Dear Sir

In a magnetic call mechanism produced as an exhibit in the interference suit "A" Edison vs Lane & Gray & Rae vs Gillilan" & "B" Edison vs Lane & Gray & Edison & Johnson" on "Magnetic Generator" four magnets like inclosed sketch and of dimensions thereon given, are missing. Mr Edison thinks they may have been taken to the Lamp Factory. Will you please see if you can find any of them. Also please, if possible, also remove the magnets from the other mechanism or the apparatus from the wooden case as he or they might be valuable to him as witnesses.

Very truly
C. L. Magee
for T. A. Edison

Agree Mr Lufberry
Insults
Enclose please find check for balance accounts of [illegible]
Please acknowledge receipt [illegible]
oblige.
check No 57

Very truly
Thos. A. Edison

Telegram

29 June 1

Henry Ward Beecher & Bros
The Wall St
New York

Refer to Rules of Racing
left with one of your clerks
Saturday addressed Barlow
Mr William. He promised
send boy round with them
immediately. Letter from
Wallerstein complains he
did not receive them

S. Truett

Mentor Ark. June 9

Lee. Lowell, Esq
108 Nassau St. New York

Dear Sir:

Your letter of the 1st inst. and one letter of the 4th inst. received

Cases 18 and 19 Mr Edison wants fought through to the end. This is especially important, as no effort should be spared to obtain everything that is not especially met.

In cases 26 and 6 Mr Edison has decided that you may take the things allowed and further appeal. Yours, Truly, Truett Bros.

5078

2

Washington, of which I have given you the numbers several times. They are I think Nos 410 to 416 both inclusive.

Yours truly
Richd. A. Dyer.

June 19

Major Z. M. Pickens

Sir: You should do me a great favor by returning immediately the rough copies of the poem in cases 434-435-436-437-438-439-440-441-442 to 446.

I am in an especial hurry for cases 435 to 440, but would like the others also.

I am trying to get all the matter together preparatory to sending them with you for photographing, and would like those I have had made

FROM
THOMAS A. EDISON,
No. 65 FIFTH AVENUE,

TO
EDISON MACHINE WORKS,
104 GOERCK STREET,
NEW YORK.

New York, 19th June 92

Dear Sir

Referring to your favor of the 16th to Mr Edison I would say that the only memorandum we have as to Dynamos built simply gives the number of machines & their denomination.

In looking over your letters I find one dated June 2nd wherein you enclosed, in addition to Fidelas & Bailey's, a statement of all Dynamos shipped to foreign parts. The Bills came to hand and the statement did not. If you have it please send it on, as it may possibly contain the information I have been looking for since I wrote you.

You will remember my talking to you about the Bill for building Dynamos against the Light Co. I said that the new cases would occasion a change & you agreed with that it would increase the amount of the bill. The next time you come to the Light Co. office you can

FROM
THOMAS A. EDISON
[illegible]
[illegible] 188[illegible]

TO
EDISON MACHINE WORKS
[illegible]
[illegible]

look over the [illegible] on the subject. [illegible] Hutchinson. I think it is filed with [illegible] no [illegible].

I have been unable to get funds on account of Parsons machines. I can get [illegible] if delivery [illegible] in August. [illegible] today again [illegible] to Edison [illegible]

We have had enquiries from [illegible] [illegible] Europe [illegible] Cuba. I do not know whether we get the order yet.

Yours truly
Saml Insull

I wrote in your [illegible] [illegible] your [illegible] to go [illegible] in [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Hastings

June 19 '

Major J. F. Miller

Dear Sir:

Your letter to Mr Edison relating to broad case on secondary battery between generator and lamps has been just handed to me for answer.

Mr Edison and myself discussed the points embodied in your letter more than two weeks ago, and specifications have been prepared and are now being copied. (Cases No 44, 45, 49, 50 & 57) ~~[illegible]~~

2

Edison has made some valuable improvements, but the claims are not limited to them, the broad ideas being also covered.

These specs I will bring into Town with me on Thursday.

Yours truly

Rich. N. Dyer

[illegible] Dear Sir

[illegible] before going to [illegible]
[illegible] as the [illegible]
[illegible] you got wanting money
for Key-Roll as you did
not answer my telegram
[illegible] although it would
have been a great inconvenience
he would have put off his
appointments till later [illegible]
[illegible] he been advised of the
necessity for so doing.

I have no doubt but
what you can arrange
this matter all right with
Insull

Yours truly

Thomas [illegible]

Mr. [illegible]
Edison Machine Works
New York [illegible]

Dear Sir,

I think it would be
well to let the workmen
have what machines they
will pay for & take away
from the works. There
are the two for Finland
I have telegraphed to-day
for shipping orders [illegible]
remaining eight for Paris
&c.

As to your pay roll
need not arrange this
with Mr. Insull. He says
two weeks he had to wait
till between one & two dollars
on the pay of [illegible]
[illegible] he had a number
of appointments which he

19th June 80

Chas L. Dean Esq
108 Grand Street
New York.

Dear Sir

Referring to yours of 18th I beg to state that we have closed with a firm in Newark for the small Swan Burners at two cents each

Yours truly

Thos A Edison

19th June 80

Mr Rocap
Edison machine works
108 Grand Street
New York

Dear Sir,

I shall be in town in all probability, [illegible] & would then like to talk the question of advertising Big machines and [illegible] amount of actual work done on them as I want to provide against the price cut lands which it is possible may occur as explained in your letter to Mr Edison of June 17th.

I am afraid the Swiss people are going up as a great deal of [illegible] over frauds for C.I. I have just had a new case on the subject of them

Yours truly
[illegible]

June 20 1

Lev. Serrell, Esq.
140 Nassau St. New York

Dear Sir:

I have gone over your general letter with Mr Edison.

Inclose affidavit prepared for use in Case 178. and forwarded by your letter of May 19th 87.

In regard to Canadian Case No. 16, your Solicitor make the division required, as set out in your letter of 5th ult on that subject.

Note the information contained in your letters of 10th ult and 13th inst. relating to German Case No. 8.

2

I presume that the claims finally rejected will now be erased.

In regard to German Case No 13, referred to in your letter of 10th ult., your correspondents will unquestionably see the material differences that exist between this case and any U. S. patents referred to. The case is an important one, claim 11 being especially valuable.

Note the final rejection of German Case No 6 referred to in your letter of 27th ult; also the final rejection of claim 1, in German Case No. 7, per letter 13th inst.

In regard to German

3.

Case no. 78, referred to in your letters of 10th ult. and 16th inst. Mr O'Brien approves of the course of your correspondents and thinks the patent should be obtained on specific matter.

In regard to Kinman case no. 15, referred to in your letter of 30th inst. you can take the claims allowed. I understand that one of them covers the compensating resistance, which is the most important point in the case.

Yours truly
Richd. A. Dyer.

20th June

S. R. Gaton Esq
Vice President
65 Fifth Avenue
New York

Dear Sir

In reply to your of 16th I enclose herewith the only copy of the Manchester prospectus we have. You can keep it until we call upon you for it. The Directors are all very prominent men – leaders alike in commercial and political life.

I have not seen a prospectus of the London but I have to-day written to London for copies & requested our

Friend there to send us half a dozen prospectus of any Co. they may bring out. I have also written to Ross Agent in London who has attended to our Telephone & Electric Light Newspaper puffing for three years to send us two copies of papers containing matters of interest to us on these subjects

You of course are welcome to the benefit of this so we shall still be kept posted although Johnson will not be there.

We have to-day received a telegram from London stating that Johnson sails on

20th June 2

Edward W. Penny Esq.
54 Wall St
New York

My Dear Mr. Penny,

Your favor of yesterday to hand.

The non-delivery of Bills of Lading cannot be avoided except that I am anxious to know where they were as I promised to deliver them by 8 o'clock Saturday. However there was no delivery was not anyone sent as your letter explained.

Yours truly

Saml Smith

Saturday Cachin Ala

Yours kindly offered to see about a steam yacht for Mr. L. If would you mind enquiring what we could get for for the season.

I shall be in town possibly Wednesday.

Yours truly

Saml Smith

Give a memo here of Bills of Lading & Receipts for Bulletin & usually for your & receipt of Bill of Lading to do so on the day

525

20th June 2

Messrs Kingsbury & Co
Bombay House
George Yard
Lombard St
London

Dear Sirs, Please send me daily a copy of the Times & Daily News and weekly the principal City & Financial papers which will give me such Stock Exchange information as to enable me to judge of value of Telephone Telegraph & Electric Light securities.

In addition to the above papers please send me from time to time the copies of newspapers containing information

20th June 2

D. Wallinckton Esq
Box 27 P.O.
New York

Dear Sir,

I enclose you herewith letter from our Shipping Clerk as to Bills of Lading which you will see that the non receipt by you was not owing to any fault of Mr Inman & I will call on you tomorrow as to advance of $9000

Yours truly
Thos A Edison

concerning Telephonic & Electric Light matters which you think would prove of interest to me.

For your information I may mention that I take the Electrician, Telegraphic Journal, Engineering, English Mechanic, Iron, Metropolitan, Journal of Gas Lighting & Water so that you need not send me copies of these papers.

Bill to be sent to above address & Email remit as necessary.

Yours truly

Alex Graham

20 Nov

Arcade London

Electrician, Papers

Email

FROM
THOMAS A. EDISON,
[illegible] FIFTH AVENUE
New York, 20th June 1887

TO
Capt. S. B. Eaton
Sea Girt

Dear Sir,

Your menu Saturday & also of Monday to hand this A.M.

The reason we are so cheap at Rochester is that there is a bitter fight between two Gas Companies.

As to Mr (Osborne) passing on our wiring till Greenfield to release thirty prominent Place including Drexel Morgan & Co Winslow Lanier & Co & Anaconda Brass & Copper Co.

I agree with you that it is a great pity that Bailey should have to engage in petty trade business at Brin.

I have been mighty amused at the account of Tagg Riggs. You can state in the Bulletin that there are no [illegible] whatever connected with the business which are not known to the proper officers of the Co.

A Bill has been rendered to Mr Geo M. Hopkins of the

Dr. 37

TO

S. A. EDISON,

NEW AVENUE

188

Scientific American for 6 special small lamps & Hopkins has written me asking me if it is correct. I have replied that it is an error & that the lamps were presented to him by the Edison Electric Light Co. Please have bill withdrawn as Hopkins does us good service.

I enclose bill of Mr Richard M. Dyer for $150 amount paid by me to him for Patents purchased for the Light Co since he left Welbeck. Please have a check sent me for the amount at your convenience.

I notice in the extract from Defect Book that complaint is again & again made of obsolete articles which are not now manufactured but nothing has been said about such defects changed lately & matched that improved manufacture. Defects especially to remain under [illegible] June 9th are

TO

[illegible] EDISON,
[illegible] ORLEANS

New York, 188

Switches. This is a reflection on the manufacturer who does not now make these ineffective Switches & surely Saul at the time of recording the complaint should also record the fact that in new installations such trouble cannot occur

Thos A Edison

Something must be done to get Claudius & two men out of the Upper Room of my Laboratory I want the Room badly I spoke to Clarke some time ago about moving them down to the old Lamp Factory Building I wrote it to the Light Co on reasonable terms to be agreed on Clarke can then have it fixed up & Claudius & staff move there Please have this attended to at once E

20th June 20

Mr Roop
Edison machine works
104 Goerck St
N. Y. City

Dear Sir
Referring to your letter of yesterday's date I beg to return you herewith major Batons letter to Mr Edison & would like you to state in replying thereto that the investment in machinery is $250000. In replying to the question as to how many machines are building say "375 ~~number of~~ machines representing 750 ~~lights~~ and including 15 large steam Dynamos or from $40000 to $50000 of work.

The other questions you can answer as you think best.

I may mention that it was on 3rd March 1881 that I first inspected the Shop and after going through the place went with Mr Dean to see Mr Roach & leaved the place

Yours truly
Thos A Edison

FROM

THOMAS A. EDISON,
No. 65 FIFTH AVENUE
New York, 20th June 1882

TO

CHAS. BATCHELOR,
PARIS, FRANCE.

My Dear Batchelor

Referring to yours of [illegible] we now set Dynamos and and with Dynamos. we only do this in the case of the 250 light machine and with the big machines we set them held on.

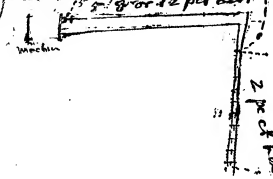
I think the enclosed sketch will show you what I mean

Very truly yours

Thos A Edison

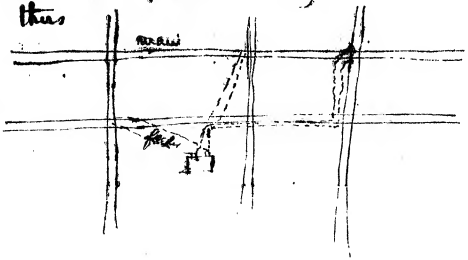
Batch =

In putting up large installations, for the small installations look out for the drop of pressure. Our tables are made for a drop of 10 per cent. Thus if 5 volts will be different to 5 volts will make the lamp at the machine give the candles, the lamp 6 candles or 25 or 30 candles. If the wires are the same the lamp — case has been changed that here. We only allow 2 per cent drop from the 1st lamp to the last and make the loss 5 or 8 or even 12 per cent on the wire leading from the machine according to circumstances.



The conductor leading from the machine has no large or any surface [illegible] wheels [illegible] the conductor [illegible] leading [illegible] wire [illegible] the tables fall the [illegible] [illegible] [illegible]

necessary. Now in your large model all leaves you must look sharp after this and I think in most places you will have to calculate for a loss of 2 percent on the tube. Carrying the light and ~~ten to~~ 12 percent on your feeder thus



a loss of 5 percent on your lamp circuits would be too much. In square miles installations without a model to put up on a board & the pressure & position of feeders carefully determined, general arrangements would be a failure as there would incur an hours or a difference of 15 volts which would bring some of the lamps to 40 candles

(2)

By a good determination there is ~~no~~ no trouble. Everything is accurate. The minimum investment in copper is obtained.
I suppose you will send Calchem or some one over immediately the Central station is ready. I think it is absolutely essential as it would be impossible to instruct one by letter on this preserve big - The Station will be contracted for finally we have the Dynamos set all the mains & feeders are laid & point of crossing hopes seem to be put in when we can start.

No. 2

Geo. B. Hopkins Esq
Scientific American
361 Broadway
New York

Dear Sir
Your favor of
yst to hand.
The enclosed Bill
should not have been
presented to you. The
lamps were the gift
of the Edison Electric
Light Co who will doubtless
withdraw the Bill when
they discover the mistake
Yours truly
Thos A Edison

No. 2

Col Geo E. Gouraud
London Eng.
Dear Col
Referring to my
cable correspondence
with you confirmed by
which I beg to advise you
that I have forwarded by
same mail under separate
cover the Austrian
Patent Papers
duly executed.
Your Patent attorney
must fill in several
blanks in the documents
Yours truly
Thos A Edison

Geo. & Thomas

New York June 20 1872 | & Thomas Jr.
Lawrence

Dear Sir,

I beg to confirm the following order
to you from Mr. Keith Robinson in the
name of Thomas Lawrence Jun. & Co.
Thousand Shares which I hold my order.

To you June 19. Oriental Light regular
Machines the which order now mean daily
delivery

Yours yon June 20. Cape.

The Cape and Australian
papers go forward to you under
separate cover.

As to the Oriental Company
for light you are now buying
and if they want machines &c.
& Gulden apparatus they must
order right away. I have orders
for about $450,000 of work & Engine
machines for 70000 full light now
in course of construction & the
orders are piling up in such
a manner that unless you

[illegible]

[illegible] June 22 [illegible]

[illegible]

[illegible]

[

Company orders at once they may have a long time to wait

Yours truly

Thos A Edison

Edita

I also confirm despatch to you of following cable

Western Australian papers mailed

E.

[illegible]

[illegible] 20 [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] June 18. Continued [illegible]
[illegible] immediate [illegible]
[illegible] Bailey

From you June 17. Continued [illegible]
[illegible] profits and [illegible] [illegible]
[illegible] quarter profits [illegible]
Bailey

From you June 17. Answer [illegible] that [illegible]
[illegible] dynamos additional

To you June 18. Price & terms [illegible] [illegible]
[illegible] Immediate price & [illegible] [illegible]
[illegible] for [illegible] immediate [illegible] within
[illegible] days Shipped from the Hamburg Immediate
from Saturday other ten [illegible] cable directions
[illegible] more wanted cable [illegible] [illegible]
to Saturday & [illegible] [illegible] [illegible]
[illegible] due [illegible] payments [illegible]
[illegible] require advance payments & [illegible]
[illegible] Shipped.

From Continental Union June 19. Cable [illegible]
[illegible] & [illegible] shipments [illegible] price & important
[illegible] Barbier drawings & [illegible] [illegible]
[illegible] Continental Union

THOMAS A. EDISON,
NO. 65 FIFTH AVENUE

New York, 188

Dear Lucius Edison Ans 20. Ship two to Antwerp two Amsterdam one Genoa one Hamburg ten to Antwerp ten Hamburg ten Genoa two orders payment with thousand dollars date shipment 25 if more necessary advance

Lucius Edison.

I think the Lorillard Company very unreasonable in refusing advances on the big machines. I have no wish as a manufacturer to make these large machines and risk my interests only that of a manufacturer I certainly should refuse to do so. There is scarcely any profit in doing so – certainly not enough to warrant me in building them & to tie up my own capital while building them is certainly out of the question. Furthermore I can get all the orders it is possible for me to fill on my own terms & it would be as much an injustice to my customers as to myself to undertake your work at any other terms. When you

Pl.

orders first came in it stood at the top of a list of orders. I now carry it say that now it does not as I was obliged to push on those English orders upon which I got advances as I required them.

As to when I can deliver I cannot at present say it depends on when I can get Engines. All I can say is that the Lorette Electric shall receive perfectly fair treatment & shall get their machines as soon as possible.

Yours truly

Thos A Edison

22nd Jan

Ernest Riedermann Esq
New York

Dear Sir, There is no necessity whatever for an Expert to be sent to Switzerland until the Locomotive is built.

Before sending a man I would propose to have him run the Locomotive here under my supervision so as to be sure that he would be competent to perform the duties expected of him.

Yours truly

Thos A. Edison

Telegram June 22d 1887

Recommended Leo
of Brooklyn Elec
Light Co

Money up Results fifteen Leadman to
Labor badly in need of Brave Practical
Men.
T.A. Edison

549

Telegram June 22d 1882

Scheffler
65 Fifth Ave
New York City, N.Y.

If you have blue / white / yellow / green / present
passenger locomotive, send them over here to day by messenger
Answer

T. A. Edison

Telegram June 22d 1882

John L. Freeman
Rahway, N.J.

which you loaned me

Mrs Edison wishes to keep phaeton till her
pony phaeton is finished, can she have it

S. Insull

Edwin Gaunt Esq.
Cor. Fifth Ave. & 23d

When are you going to ship high lancer horses from Boston over here and how to be known in addition this week if not before Nov.

Pres. 22d

June 22

Major J. F. Weber
Cor. 5th Ave. N.Y.

Dear Sir:
I hand you herewith applications No. 448, 449, 450, 451 and 452, and 453 received since. These are the cases on the subject that the Bench people are supposed to be working up. Mr Evison wishes them filed immediately.

Yours truly
Rich^d. N. Dyer.

22nd Dec

Dear Sir

[illegible] I'll write
Canada [illegible] to a motion here [illegible]
[illegible] Patent Co to take & manufacture
[illegible] to not see from we can
do. Other wise in Canada where
the agents are comparatively
[illegible] all. It is still a misfortune
[illegible] the patents the Co
[illegible] Canada) would control the
manufacture and consequently
[illegible] regulate the price to the
[illegible] Chicago for machines.

I presume it would be as
well for the Patent Co to [illegible]
[illegible] business in Canada [illegible]
[illegible] a separate local Coy to
[illegible] the work.

I have not seen the [illegible]
Cabinet in Brussels

I will [illegible] to [illegible]
[illegible] Sandeman [illegible]
[illegible] next [illegible]
[illegible]
[illegible]

Yours [illegible]

Geo A Cox

22nd June 2

C. W. Quinn Esq
P. O. Box 942
New York

Dear Sir,

Referring to your letter of 20th M.K. I am quite welcome to visit Menlo whenever he find it convenient.

I may however say that the place looks very bare now as all our fine instruments are in Europe having been sent to the Electrical Exposition in Paris thence to London.

Yours truly,

Thos. A. Edison

22nd June 2

Calvin Goodman Esq
Secretary
Edison Electric Light Co
65 Fifth Avenue
New York

Dear Sir,

Customer wanting please find full statement of all machines shipped by Edison Machine Works for Europe up up to 1 May 1882

Yours truly,

Sam'l Insull

28th June 1

Bank of Metropolis
15 Union Square
New York

Dear Sirs,
Please collect
enclosed check for $250
& place it to my credit
acknowledging receipt
to above address
Yours truly
Sam Barrett

28th June 1

John Crown
24 Downing Street
New York

I enclose you herewith
a return ticket to
Newport Park & shall be
glad if you will come
out to see me as per your
letter of 22nd inst.
If you cannot come
tomorrow come
Sunday
Yours &c
Thos Edison

28th June 2

H. H. Benning Esq
Huntingdon
W. Va

Dear Sir,

Referring to your favor of 26th I beg to state that my own inventions occupy so much of my time that I am obliged to decline to have anything to do with the inventions of others

Yours truly

Thos A Edison

[illegible] June 2

Marine Dept
[illegible] Union [illegible]
195 Broadway
N. Y.

Notify me immediately
at [illegible] quarantine
off this Island with
[illegible] time arrival
at quarantine. I want
to [illegible] on the day
[illegible] to meet the steamer
[illegible] therefore particularly
desire early information
[illegible] notify C. P.
[illegible] 65 Fifth
Avenue New York my
expense

Thos. A. Bain

Dec 5

Geo. L. Brown Esq
National Bank of Republic
New York City

Dear Sir,

Replying to your favor of 22nd inst. my impression is that Plainfield is a little too large for the purpose & moreover we have had success in a place so large. My design is to try the experiment in a place like Roselle N.J. & if successful there, as I have no doubt it would be, there would be no doubt of meeting with success in outlays of a larger character.

Yours truly,

Thos A Edison

Menlo Park, N.J. [illegible]

T. J. Sanford Esq.
Southampton Bldgs.
London W.C. Eng.

Dear Sir:

I have to acknowledge the receipt of your second letter, and beg to offer my thanks for the copies of the Electrical Review, containing your article on English Patent practice, which I read with pleasure.

I inclose the additional drawing in cases 43 and 45, and additional matter for the specifications in

2

cases 43, 45 and 46.

I also inclose a list of my Edison's English Patents from No. 95 to No. 43, both inclusive, as shown by the regord prepared by Mr Sewell for my Edison's use.

If you do not consider the descriptions of the modifications in cases 43 and 45 sufficiently full, you might revise them, the descriptions sent will give you a clear understanding of the construction.

I will answer your letter in detail and forward my copy next week. Kind Dear

June 16 –

J. Wardford Esq
11 Southampton Bldg
London W.C. Eng.

Dear Sir:

Inclose the papers in case No. 50, which should be filed without delay.

I have made the case a common from Van Clene, but the patent should be assigned like the rest to Mr Edison. I have also forwarded today a copy of these papers to the Continental Edison. 33 Avenue de l'Opéra Paris. Yours truly, R. S. Dyer

June 16 –

The Continental Edison
33 Avenue de l'Opéra Paris

Gentlemen:

Inclose copy of papers for Continental Case No. 40. This of especial importance that this Case should be filed immediately, inasmuch Edison not being here to sign Power of attorney, the patents had better be taken out directly in the name of your Company. I have your several letters and will answer them in detail in a few days. Yours truly, R. S. Dyer

2

in complete not set forth in full.

In my amendatory paper in case 43, I did not make the change at head of the page suggested by you. The total change of the character I effect for of course breaks when you consider that the effect will be in any respect improved by the change.

Your letter of April 18th was also received in due course.

Case 44

The endorsements may be attached to Plates C by screws. Plates C are

June 24

2

J. Hansford Esq
42 Southampton Bldgs.
London W.C. Eng

Dear Sir,

I now wish to acknowledge the receipt of your several letters and Dupleys to them in detail.

Your letter of April 18th was received in due course.

Case 44

The drawings and additional specs have been forwarded. The claims seem now to be agreed upon.

I thank you much for your clear explanation of the effect of adding modifications

3 set into grooves in the ~~[illegible]~~ shown. There need be no special attachment of plates C, to case A.

In regard to the prints forwarded, you will have to understand the process by which they are made in order to be able to read the drawing readily.

We take thick paper and cover the surface with a mixture of ferrocyanide of potassium, iron citrate of ammonia, and water, which is allowed to dry in a dark room. The tracing

4 on ~~[illegible]~~ linen, which we preserve as N. S. drawings, are placed upon this sensitized paper, and the whole exposed to the sun. Wherever the sensitized paper is not protected by ink upon the tracing, its surface is fixed (made insoluble in water), but where protected by ink the surface remains soluble in water. After an exposure of three minutes, the sensitized paper is washed in water and the surface where it has been protected by the ink of the tracing is removed. Hence the

5

white spaces on your blue print are black in your drawing and they should be so on yours. These spaces represent insulation and they occur in figure 7, between the plates C and also between the bars B.

I think the claim you propose all right. The connecting bars are quite essential.

Cases 45 and 46.

I have forwarded addln drawing and specn in one case and an addln specn in the other. I will consider the

6

claims sent in accordance with your letter under consideration.

Your letter of April 18th was also duly received.

Case 48

I have noted the change made by you in the title. The Continental Case was forwarded to Mr. Batchelor on the 13th of this month.

In connection with this matter, I recall to your attention the Edison's prior patent 3894-80 and Siemens' patent

/.

503-80. Jeremiah Lee to call your attention to the 9th claim, as one which I think is described in Mr Edison's prior patent, but which Mr Edison wants one to put into this case. Mr E. argues that no particular embodiment of the invention is described in that patent. The arrangement of the invention is not per se new; but may be new in this connection.

Your letters of 18th and 19th of April in regard to private business were duly received.

/.

The special business which occasioned my writing you on this subject has been defered. I may write you again in regard to the matter.

Your letter of April 22nd also was duly received.

Case 47

I am having an extra drawing made, and will furnish additional description and work up you in detail in a day or two.

I have also received your letter of 7th ult. the list of patents has been forwarded

9

Cases 49. and 49a

Mr Edison has seen your letter explaining the reasons for dividing the case.

I have acknowledged your letter of 18th ult relating to the same matter, but fearing that these instructions will fall with out additional sketches from Mr Edison he has promised to forward them.

Your letter of 17th inst regard to case of Stern and Byllesby has been received.

Claim 1 in this case is very important and I know of no

10.

anticipation. Mr Edison's U.S. patent 218,167. dated Aug. 5 '79 is the nearest approach we have been able to find. Please refer me to the patent or publication upon which you base your advice to cancel this claim.

With reference to the spring resting on the segment commutator, flat spring or those having a slight curve, are used, the sides of the springs the end resting on the commutator so that there will be no danger of catching the ends of the springs on the edges of the commu-

Cables

27th June 2

Seventeen London
man named
Biedermann with
discharged employee name
Mott sailed for Geneva
via London. Have no
connection with either

8 Knocke Paris
Biedermann send
same Mott Geneva railway
work against my work.
Have no connection
with either

Stationery
Like the

Yours truly
Rich

Cables

27th June 2

Pacentini
Geneva

Cannot you arrange with Berthaud Bord allow me work there
Edison

Pacentini Geneva
Mr Smart who called with Mr Bedermann instructions have no connection with him. Lent contrary my wishes and Bedermann promise knows nothing about railway
Dangerous man
Edison

27th June 2

Chas W. Havemeyer Esq
78-9 Wall Street
New York

Dear Sir,

In our agreement of 19th June it is provided that I shall send to Geneva as soon as convenient a skilled workman from my Laboratory understanding the dynamos used in connection with my electric Rail Road System to give necessary instructions to workmen in Geneva.

Mr Bedermann came to me several days before he called and told me he had engaged

V

X

objections to Mott going
but he promised me that
he would not take him.
But in spite of my
objections and Mr Biddermann's
promise Mott sailed for
Geneva on Saturday last.
I consider this a
breach of our Contract
and a direct insult
to myself and until
Mott is recalled I must
refuse to do anything
further as to Electric
Rail Road for Switzerland
as I should not consider
it expedient on my part
to have the success of
the enterprise in any
way dependant on Mr
I would suggest also Mr

subject to my approval
Samuel D. Mott, to whose
engagement I strongly
objected on the grounds of
that there is not any
necessity to send a man
at present, (2nd) that Mott
understands nothing
whatever at all about
the business (3rd) that
Mott does not at all
possess my confidence
as I relieved him of his
duties as my Patent
Office Draughtsman in
consequence of what I
considered very question-
able practices on his
part.
I informed Mr
Biddermann of my

you refuse to make any payments whatever on account of the Rail Road until most is needed, and when it is necessary to and a man I will choose one capable to perform the duties required of him and in whom we can place confidence

Yours truly

Thomas A. Fagan

June 27. 2

T. J. Hinsford Esq
[illegible] Bldgs
London W.C. Eng.

Dear Sir:

Inclosed papers for English Case No. 51, and Impt in Electrical meters. The corresponding Continental Case, No. 41, has not yet been forwarded to Paris.

Electrical meters are receiving considerable attention just now, and Mr Edison is therefore anxious that the proceedings in this case should be filed without delay. Yours [illegible]

[illegible]

[illegible]

[illegible]

Y

29th June 2

Major Eaton,

Your memo 28th June 1882

Boston Inventions. I do not think we want them. Arthur has taken up an application for me, on three points.

Boston Interference. I think you had better let it go over with the other Business. We can of course get along at Gauge & with the meter business for now to come but ultimately the whole will have to be given up to Boston especially if the small Boston business is OK. It will not be four months before everything is needed. But we will lean the matter until the Boom comes along if you like. As to the Patent Bug Dust only stored in the Cupola of the Galvanometer room we have so pressed for room that we are putting up a four story brick building in the rear so you see the $500 is not what we are after. What I want to

1/

is to have a room for manufacturing so that I can show the Americans all over the world.

Reading Proceedings. I think Mr Clarke time should be changed at the rate of £100 per day and others in proportion. It is decided to the interest of Lee in every country to have the Americans entered out of course the Lee would not lose by it. I suppose you remember that Duncan & myself and others have done considerable work without pay. I should say time consumed of our employees pay double what I cost us.

Bennington. All I agreed with Armstrong that if he could furnish engines as we want them at price suitable to us we would probably agree to with him only providing and others have preference.

Pickard & Young. I recall well looking up the correspondence & send it to you. His impression is that it was handed to Gaskell & may possibly attached to Donkeys. Search if not we have it as we file everything.

San Domingo Boston at the Right
time San Domingo orders any question
as to ownership of territory, cases
settled later
Spanish Claims Bill. Lamaguy that
he should be at court
Journal of 24th

Regmann & Ennis to be certainly
chosen not sell to the Marine
Corps
Capt Mott. except his resignation
by all means and Pohanco can
make no contract at all with
him. We do not want any of his
interest at all. Further more
what he has is owned by our
patents & he would have nothing
at all but for Chased & to give
him any contract at all would
be to recognize his unfaithfulness
Journal of 26th June.
Lieut. Lamaguy to Jones. I should
say sell to Jones by all means
if they want to sell again give
them a discount. They direct to
me you say to sell these Boston

If we get over [illegible] I should say [illegible]
Mr. Sec. Separator. Tell the San Francisco
Parties to send the [illegible] on 5 [illegible]
well look [illegible]
Herman Case. I return you herewith
Mr. Lewis report which impresses
me well & the fact that he is very
smart & should be injured by our
other interference — you mean the
Director. When the case looks [illegible]

I think there is [illegible]
in stating he [illegible] that meant in
78. I think it was, in October 78
but I am not absolutely sure
of this.

I was never in Chicago but
once in my life & once in 1878
when I was there I think for
about two days and [illegible] times
in 1878. When going west to see
the Eclipse that year I stayed there
one day & on my return I did
not go outside the Depot.

The Indemnity was [illegible]
in 1878 & put in operation in 82
I do not know any [illegible]

4/

I of me got over powder & they
I should say a K.
Free Soil Separator Peel the San Domingo
Parties to send the Gold on to
well look into it
Freeman Case. I return you herewith
Mr Lewis report which impresses
me well the fact that he is a
man & should be engaged by us in
other interferences upon matters the
Lacotor — where the case looks
I think Price is mistaken
in stating he got that name in
78. I think it was in October
that I am not absolutely sure
of this
I was never in Chicago but
once in my life one in 186
when I was there I think for
about two days and
in 1878. When going west to see
the Eclipse that year I stayed there
one day & on my return I did
not go outside the Depot.
The Quadruplet was invented
in 1878 & put in operation in Sept
I do not know any Melpha in

Chicago & never knew Freemason.
The whole is an absolute lie.
I do not know a Fuller of Chicago.
Toledo. Hughes' Brother writes
I have corresponded with me
Goddard & thought they would
give us a proposition. I received
a letter yesterday saying that
had offers from other good parties
& had neglected them to confer
with us. I am afraid they have
been dealing with the parties
who run the location light here
& if they think they are good
parties they do not know about
what they are taking about.
They have been attempting to
light up and their main wire
has only ~~[illegible]~~ and put up
four small blocks on the principal
street. & they do not pretend to
light as it should be lighted.
Hughes people got the franchise
18 months back. There been
palaver, marking time till we are
ready to start. They are
enthusiastic & make a good

the Toledo business providing everything is all right I should like them to have it.

Freeman Alvin. I enclose letter from Mr Jobbins the man who has the closed box & intended with the same line back. Please reply to it.

Thos A Edison

June 27th 2.

Mr D.W. Brandon,
1, Rue Laffitte Paris France.

Dear Sir:

I have to acknowledge the receipt of your letter of 2d inst. and also the receipt of the printed blank powers kindly sent by you.

We propose hereafter to prepare the papers for foreign patents as soon after the filing of the U. S. cases as possible, and this will always give a reasonable length of time for the preparation of the papers for filing. In no case, except where special instructions are sent, will the U. S. patent issue within a month of the time that the papers reach Paris. I cannot see how a delay of longer than a week or two weeks at the outside, is necessary. Our London solicitor is Mr T. J. Handford, of 42 Southampton Buildings London W.C. and he I understand is in correspondence with the Continental Firm.

Telegram

June 26th 1882

Your letter of 20th ult. has also received in due course of mail. I note what you say in regard to the case of Edison & Byllesby, and was pleased to inform Mr Edison that of your opinion as to the validity of the French patent.

Yours truly
Richd N. Dyer.

P. B. Shaw
65 Fifth ave
New York City

All right come out to day

Thos. A. Edison

4 PM.

6023

June 20th 2

Major J. H. Walker,
65 5th Ave. N. J.

Dear Sir:

Since writing you on June 5th in regard to automatic regulators, it has been discovered that the patent of Martin 378,543, June 8th 1888, shows an electro magnet placed in a multiple arc circuit and controlling circuit of another electro-magnet called regulator generator. This patent is probably earlier than the use by Mr Edison of an electro magnet in multiple arc for

2

regulating the machine; Thomas Edison before that date regulated a lamp or lamps by a regulator controlled by an electro-magnet in multiple arc.

Hence for the broadest claim in case 3rd/5 it might be advisable to cover the use of a device placed in a multiple arc circuit and affected the same as a lamp, for regulating a lamp or lamps, whether directly or through the machine. The word "device" or some similar broad

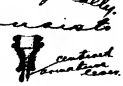
3

expression should be used, since a thermostatic device may be used in place of an electro-magnet, and perhaps other devices. On the thermostatic device, I am now preparing the paper for a separate application.

Another feature of importance is the closing of the circuit by the device in multiple arc, so as to give a mechanical movement in opposite directions. This is not shown by motion.

4. A more important feature however, is the centered electro-magnet.

5. By reference to case 7. you will see that lever F is held against spring lever g in a central position. In John Ott's case the other form of device for this purpose is shown and should be claimed specifically. That device consists of two springs like this:



5. If the lever is centered it does not act at all upon a definite change in electro-motive force, and the flickering of the light which is caused by a too sensitive action of the magnet is prevented.

Yours truly
Richd. N. Dyer.

28th June

My Dear Major
The enclosed prospectus has arrived by this mail & I hasten to send it to you.
You can keep it as we have other copies
Many thanks for the particulars about the Yacht. Mr Edison & myself are going over to see it one night this week
Yours very truly
Saml Insull

28th June

Chas. E. Clark Esq
65 Reft to Received
New York

Dear Sir
I enclose you herewith Jebb's paper on meters which please carefully revise & then send it to C. L. Berry of Van Nostrand's who desires to publish it in Van Nostrand's Magazine
Yours very truly
Thos. A. Edison

June 29 2

John M. Lufts Jr
88 Nassau St
New York City

Dear Sir

Replying to your letter of — ult. Mr. Edison is now perfecting a system of Electric Lighting applicable to small towns but cannot do anything at present. He is going to try it first at Menlo on the Pacific Road. I would advise your Common Council to make no contract with Gas Co. which cannot be easily undone

Very Truly

Samuel Insull
Private Secy

June 29 2

Cable

Electric Light
Malaga

against Edison Lighting
Jersey.

June 29 2

Cable

Accretion
Lenox

Shipped Wednesday
Edison

June 29 — 2

J. B. Thompson Esq.
Treas. of Pacific Gaslight Monthly
320 Broad Street
New York City

Dear Sir

Referring to mine of 23rd inst.

The Companies run on both sides of the Street. We use no more pipe in open and more branches than they do. Of course we use the gas consumed in a table at 80c 36 cents per arena for 2 hours. The meters cost about one cent that of the present.

For New York Companies all have minimum meters independent of their mains so as to keep the pressure constant.

In practice 2000 burners consume as much as 1000 feet of gas in Philadelphia. In furnace of gas in City Hall and other place

then that in service in practice burns one half but of gas to give sixteen candles when the gas is from 20 to 24 candles. Once lighted to eight to a half when 16 candle gas is used. With new burners with burner wastes filled for stem about 1 candle can be obtained from 16 candle gas. This is an invariable condition in practice.

The burner after burning for few weeks change the pressure is wrong.

We have a test apparatus you can verify this if you desire.

The 200 million cubic supply can 45000 burners for 3 hours. Average daily for 300 days.

Yours Truly

Wm A Bolles

June 29 - 2

E. L. Bean Esq
[illegible] Broad St
New York City

Dear Sir

Referring to your letter of 28th inst. We must use the old cylinders for the four Belt Engines if we cannot get new ones.

Return you Russell Southwick Francis' bill letter

Yours Truly

Thos A Edison

June 29 - 2

Société Electric Edison
38 Avenue de l'Opéra
Paris France

Gentlemen

Referring to your favor of 9th June I think you have a wrong idea about the time required to build D. dynamos. You say nothing whatever about further advances beyond the 1,000 received. Wallenstein has received no further instructions in this connection.

I await further advices as to this matter.

Yours Truly

Thos A Edison

July 28 1

T. D. Sandford Esq.
Mr Southampton Bridge Co.
London W. C. Eng.

Dear Sir,

I have much to reply in detail to your letters of April 20th & 27th in regard to Case 47

I inclose a paper of the changes which I think desirable in view of your letters and also an additional view for the drawing. The main on paper and detailing the dynamo connections therein the field coils are in series with the armature coils, the circuit controller being placed in a shunt to permit a reversal of the field coils. Mr Brown thought best because, since it relates more especially to machines of the Brush automobile construction designed for high tension current. You will see that ~~[illegible]~~ with the exception of the weight operated circuit controller, I have not furnished additional drawings of the modified forms of connections set out in the specification the reason for this

3

course is, that the modified connections would be clearly obvious to persons skilled in the art from the general description, but in addition, are the clear equivalents of the connections shown.

I inclose some rough pencil sketches of my own illustrating these modified connections.

No. 1 shows the magnets in series, which throw in and cut out the sections of the spark arresting resistance (p. 3 l. 5 from the top).

Nos 2 and 3 show relay arrangements: In No 2

4

the magnet which works circuit controller is in a shunt from a main conductor. In No 3 this magnet is in a shunt around the section of the spark arresting resistance which is in series in circuit.

Nos 2 and 3 show clear equivalents of the forms shown in figures 3, 4 & 5 of the drawing; while No. 1 is an equivalent of the connections shown in figure 6.

It would be unnecessary, it seems to me, to enumerate all the modifications in

5

the connections that could be made, and highly impracticable to attempt to illustrate them all. The best connections are illustrated, and other connections that would answer the purpose well, are described in such terms, that any person having the ordinary knowledge gained by practical experience in the business would be able to make them.

With reference to the paragraph on 3d page referring to the Eden arrangement, I do

6

not see why it is necessary to illustrate such an arrangement in connection with each form of the apparatus, such being illustrated in connection with the principal form, as it is in figures 3, 4 and 5.

In regard to the claims, I see no objection to leaving out the 3d, 7th, 8th and 9th claims, but the 4th claim I think should be retained, for

7.

The reason that the ~~position of the controlling~~ electro-magnet must be in is a very important feature in connection with the vibrating circuit controller. A magnet in that position is affected exactly the same as a lamp by changes in number of lamps in circuit and in speed of the generator, which an electro-magnet in the line (for instance) will only regulate for lamps added

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for speed. If this clause is retained, the words "or magnetic" should be erased in view of the changes proposed in my amendatory papers.

Yours truly
Richard Ryan

July 18th

Cie Continentale Edison,
33 Avenue de l'Opera
Paris - France

Gentlemen:

Your letter of May 4th was received in due course of mail.

Inclose papers for Continental Cases 41-42 and 43, which as I have before written Mr Batchelor and Mr Brandon should not be patented for any term less than fourteen years.

In case #1 a foreign patent is referred to on pages 6 and 14 that is Continental Case 32, which was patented in France Dec. 28th 81 (No 145,598)

In regard to the filing of U. S. cases, in the present condition of work in the U. S. Patent Office, Mr Edison's foreign patents are usually all granted before the U. S. patent.

In commencing foreign cases we

have always looked
it that the U. S. patents
are not issued within
a month of the time
that the papers reach
Europe. This gives
plenty of time to
get the Continental
cases filed, which
should be done not
later than two
weeks after the
papers are received.
It cannot take
longer than that
time to prepare
the papers, but

"
if necessary a month
can be consumed in
that work without
danger from the
U. S. patents, except
in cases where
special instructions
are forwarded.
It would be quite
difficult to keep
you informed of the
grant of U. S. cases
coming on among
particular Continental
cases, for the reason
that the general U. S.
cases included in
all foreign cases

5.

may be patented at different dates ranging from a month to a year or more apart.

I have not forwarded any Powers & J.A. Harney with cases #1. #2 - and #3; but will send them within a week. In consolidating the cases already sent, you ~~must have~~ could not have needed all the Powers sent, and hence you may have spared them for these cases.

6.

However I will forward additional Powers for France, Belgium, Germany, Austria, Italy and Spain.

Mr. Batchelor about time requested me to send three copies of each case, but I dare not do at present on account of the activity in Mr. Edison's patent matters. You will have to give arrangements to him re

7

extra copies made in Paris.

I beg also to acknowledge the receipt of your letter of the 8th inst. inclosing Rivers affidavit for Denmark.

Upon this subject I have written Mr Batchelor at Mr Edison's request.

My English correspondent is Mr T. J. Handford, 12 Southampton Buildings, London.

8

The cases corresponding to those inclosed have been forwarded to him to day. They are numbered 51. 52 and 53. You should write him when your Continental Cases will be filed.

Yours truly
Rich. N. Dyer.

July 18 72

Mr Chas Batchelor
Eng. Sun Shine - France

Dear Sir:

The home
just received from the
Cie Continentale Edison,
Blanc Powers of Atty
for Danish patents;
also a letter dated
June 12th stating that
"we were able to deposit
in Denmark Continental
cells 98 & following with
provisional powers,
but we shall ultimately
require original powers"
so we
now according to
the information we
have, patents are
granted in Denmark
for five (5) years
only.
Our U. S. patents
are not granted, on
account of the
delay occasioned
by the examination
in the Patent Office,
until after the
grant of the Danish
patents, and under
the law have the
U. S. patent of
with the prior
foreign patent
which expires first.

3

Decide you in regard to this point March 11th '85.

No patent should be taken for less than fourteen (14) years (the length of the English Patent); and it should be looked to that the grant is for more than 14 yrs, since if a prior foreign patent is granted for a shorter term and then extended, the patent will become void at the end of the short term

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for which the prior foreign patent was granted.

Mr Edison requests me to write you in regard to this matter, since it is of great importance; and he wishes you to make a personal matter of seeing that the mistake is corrected.

The Danish cases should be written, if possible, and an understanding gained as to the proper course to be taken with the Danish Bureau of Patents.

FROM
THOMAS A. EDISON,
65 FIFTH AVENUE,
New York, 8th July 1882

TO
Major L. B. Eaton
65 Fifth Avenue

Brackett & Young. Enclosed herewith copies of letters sent to Professors Brackett & Young. The letters you have received are those subject matter must be in your office either in the Statistical Bureau or in the Accounting Dept as usual. The greatest care is taken in the filing of all my papers & not one of these letters are on my files. I recall say that at the time the correspondence referred to took place he wrote to send all letters addressed to me personally with reference to Light Co business to the Statistical Bureau.

Guelcher Lamp. I return you herewith the papers. Give to the Lamp we have no use for it.

Clarke's Estimate for Gadd. I think the estimate is all right but I think $200 will be safe $600 should be added to cost of each K Dynamo for fine wire and extra insulation for light electromotive force

FROM

THOMAS A. EDISON,

No. 65 FIFTH AVENUE.

New York, ... 188

TO

I note as that Ladd in his letter remarks "premium a metallic cement will be necessary" owing to inability to get a good ground & think you should tell Mr Ladd that we never used anything but a metallic cement and that we disapproved altogether of the use of the ground as a future

Lawyer my understanding is that "Lawyer" is not ed. It expressed some time back. You might find out if this is correct. Anyway keep bushels on the string" & meanwhile Cornell will settle with him a disputed personal account of mine with bushels on his (Mr) own terms to make him feel good. I do not intend paying him a cent but "consumedness alter cases"

I return you your letter & enclosures & bushels with a few comments

Yours truly,
Thos A. Edison

July 5 – 2

Mr. Sylvester Gray
Edison Camp Meeting
Stanton N.J.

Dear Sir

Receiving to-day your just received [illegible] I think you will be happy to have him accompany your wife [illegible].

Please attend this meeting and let all descriptions of omens, avoiding too delicate explanations, and admit this [illegible].

Yours Truly

If he should bring friends inquire who they are & if unobjectionable ok but if [illegible] [illegible]

July 5 – 2

6

Telegram

Mr. T. A. Parker
65 Wall Street N.Y.

Crosby & will be here Friday the [illegible]

T. A. Edison

FROM

THOMAS A. EDISON,

~~No. 65 Park Place,~~

New York, ... 182

TO

Edwin Ross Weed

Sept. 5 - 82

My Dear Weed

I have just sent you letter to Hinson regarding light given off from Machine as compared with Gas Flame, we had one hour that difficult few to run on account of the light given by incandescing, brighter than Figures or Gerardle, on the cream of milk are both action and light rather same immensely.

Now if you will give me all the facts as I have been accumulating since I saw you on all points. First what is the actual light of all machines used for incandescing lights. The number of lights each machine is guaranteed to run. The candle power of each lamp. The average as well as proper (both from actual observation). The hours burning they say is required. Also the same data from other makers. Also Steam and other prime lines and indications. Also a report of actual work other has been done on the Dynamo, including, power required of engine or already in use. In some place where it has not been built in as an advertisement, I mean an honest call to build.

Now when can you start from to make machines from which we can to sell Electric or rather Light and as Light economical and

—

2

FROM

THOMAS A. EDISON,

No. 65 Fifth AVENUE

New York, ... 188

TO

.....

.....

lamps in the Sculptor's Studio of the Museum is worth to a sculptor temporary disadvantage.

You will notice that ladies, we have adopted the dynamo coming down to 65 on the 250 machine and 660 to 700 on the 150. Your my impression is that these installations have actually a 10 candle lamp. Those on the Sirius were 6 candle lamps, and we go to 8 candles when the were a Thomson alternating 200 light machine being used of the, as 10 candles then on 250 machine 7 to 8 candles will give 400 & over 10 candle candle.

If an engine is to be provided but $5 horse power will be required. The Westinghouse Engine for $500 will produce that power, thus we have 400, 10 candle lamps with engine for $2100. or 5½ per lamp including power.

The cost of wire to start the lamps in the museum will be seven times less than seven for lamps being, I believe 80 ohms and over 250. I am anxious to learn the particulars of the cost of the installations for both and the opinion of an expert as to the wisdom of any of the proposed machines can be made at almost any price, this is merely a question of policy.

Yours very truly

July 5 – 2

Francis R. Upton
Edison Lamp Co.
Harrison N.J.

Dear Sir

Samuel W. Quinn Esq of Philada are offering our lamps for sale in quantities to suit purchasers at $2.00 by quantity or $3 single lamp. The lamps are mostly Bo that they have on hand, and without the platit socket. All these lamps have certainly not gone through the channels of the Co. the Co is as though they may have been surreptitiously removed from the factory, and I would advise you to take some steps to prevent any thing of this kind, and to discover if possible the source of this supply.

Yours Truly
T. A. Edison – NO.

July 6 – 2

Filemans

Mr Aspinwall
Bayonne N.J.

Will take yacht with engineer for Menlo Park ready Saturday

T. A. Edison

Telegram

S. Francis
65 – 5 Avenue N.Y.

Have sent Aspinwall for yacht and engineer Menlo Park ready Saturday

T. A. Edison

June 22 1882
July 6 1882

C L Dean
1014 Broadway St
New York City

Can you let Barron come here
tuesday to pack our hydraulic
press

Edison

July 2d

American Dist Telegraph Co
For Messenger Service

Mar 31	To Geo H. Ogden	Attorney		71 24
June 9	To Saml Bissell	Expenses in New York		75
June 19	To Cash	Attorney's Expenses		7 00
June 30	To Geo H. Ogden	Attorney		12 00
July 3	To Richd V. Ogden	Taking Testimony		5 00

#23699

9th July 2

D. Wallenstein
74 William Street
New York

Shall not want more than two thousand dollars tomorrow

Snell

John Aspinwall
Panama
R. G.

will send Engineer this afternoon. We go up tomorrow on nine o'clock train

Saml Snell

Chas L. Dean
Carson Machine Works
104 Grand St
New York

Select an Engineer for me and send him to Steam Yacht Carson, Allan Bros Wharf Condition this afternoon. Shall want him for month. Make terms with him on basis of my providing his board. He should go by three thirty train to Rhinebeck today. Men used to marine engines preferred

Thos A Carson

FROM
THOMAS A. EDISON,
~~Menlo Park, N.J.~~ New York, 6th July 1882

TO
Major S. R. Eaton
65 Park Ave
N. Y.

Dear Sir,

Your memo 1st July came to hand this A.M.

Porter Engines. I think the remaining engines should certainly be got rid of if possible

Morton's Letter. I do not see what can be done except tell Morton to go ahead & get a Patent & then if we think it worth purchasing we can buy it.

Dyers P.C. I have him write the Specifications because I think it is essential they should be got on quickly. I understand that when Colbert is in Washington he does very little work for us. So he not compelled by his Contract to give the whole of his time to us. I think if you enquire you will find that he is working for others notably the Postal Telegraph Co.

Michels & Lounsee. I will see Mr Michels last evening & settle an old a/c with him (Mr) which will probably make him feel good

FROM

THOMAS A. EDISON,
No. 65 FIFTH AVENUE,
New-York, ... 188

TO

I used to own Lowrie and I lost a good deal of money in it so gave it up. Michels even he runs against Insull & he did so again last evening when Insull told him I could not possibly send it

Professor Draper Plant was put in without charge.

Chicago Co. I have looked over the list you sent me & am much pleased at it. I want to have a long talk with Hagen if he is here after my return from my trip.

I am sorry you do not feel like going with us we would have a good time I think & I believe the trip would have done you good.

Yours Edison

9th July 2

Messrs Renshaw
2 Suffolk Lane
Cannon Street
London Eng

Dear Sirs, Oriental Telephone
I enclose you herewith notice as to future payments of Royalties by Westn Electric M. & Co duly executed by Mr Edison and endorsed by Mr Randolph who delivered it.
I also enclose you receipt from the W. E. M. Co.
Yours truly
Saml Insull

July 7 1882

I send you a piece of celluloid please cut a few & stamp carbons out of it & put & get a carve

Edison

July 7 1882

Mr. Insull Assume the gentleman may take a few to make & all the logan bon you want the carbons moulded & write the operation to me of the engagement

Edison

7th July 2

Dearie R. Upton Esq
Edison Lamp Co
Harrison
New Jersey

Dear Sir, Referring to yours of 7th I think it would be well to make the "Camps" for say three cents less than in my v. l. Think the cents would be too much of a reduction.

Yours truly

Frank Edison

7th July 2

Dear Mr Christensen

I am going away yachting with Mr Edison for a week or so and during my absence Mr Rocap and Book Keeper at the machine works will present at D. M. & Co. the Invoices & Bills of Lading with Draft on Edison Electric Light Co of London. Will you kindly arrange that the checks in payment of same are drawn to the order of the Edison machine works instead of to Mr Edison's order as otherwise Mr Rocap could not use the checks until Mr Edison or myself return

Yours truly

Paul Jewell

July 5 – 2

7th July 2

Roop will not be able to use the money till Mr Edisons or my return

Yours truly

Saml Insull

D. Wallerstein Esq
174 William Street
New York

Dear Sir,

Mr Edison & myself are going away today for a few days packing & during my absence Mr Chas S. Roop our Book Keeper at the Edison Machine Works will present Bills of Lading & Invoices to you. He will have receipt signed by me as usual.

Please hand the checks made out to order of Edison Machine Works instead of to Thos A Edison order as otherwise Mr

July 14 – 2

Dr Edison
Menlo Park
Cannot do Com

Dear Sir
Referring to your letter of July 10. We not have no motor suitable for dynamo driving which, in fact, is the cause of current to operate a motor, is a great problem. Can the armature of the armature, by reel, [illegible]
Yours Truly
J. D. Edison
Pres.

Menlo Park July 15 2

T. A. Edison
Yacht Aaron
Cornwall Ont

Mail and one cable at 65 contents northbrown. Foreign letters unopened. Domestic unimportant. Exhibit matters gone. Tube and tape go Monday drawings to go today. Clarke astronomer central Station cable. No additional cables. Wilton telegraphs for installation of Phonograph at repeater in Telephone circuit. Things O.K. here

E. P. Mott

July 15 2

Telegram

T. A. Edison
Yacht Arrow
Edenburg W.C.

Much advice demanding advances now on orders 2 large Machines. Screwfow Order ten armatures ten sets commutators and sundries for 70. All by mail.

C. P. Mott

July 17

Telegram

T. A. Edison
Yacht Arrow
Cape Vincent W.C.

Wilbur miniature. Magnetic evidence to be taken. Interview with Johnson be sent. Cable screwfow. Waiting price receiver-ses and detailed particulars furnaces and fifty light Machine

C. P. Mott

July 18 '

Chas Wirth Esq.
No. 10 York St. Camden N.J.

Dear Sir:

I have telegraphed you today asking you if you can be here to testify on Thursday morning next. The lawyers will be here at 10.30, but it will be time enough if you can reach here on the local train stopping here at 11.31 A.M. You can catch this train at New Brunswick by leaving Philadelphia at 9 o'clk on the New York Express. I send you by mail a copy of the testimony as far taken. Your memory may be refreshed by reading it over. I expect to hear from you this afternoon by telegraph.

Yours truly
Rich.d A. Dyer.

19th July 2

Peden Blodgett Esq
Manager
Equitable Life Ass Soc
120 Broadway
New York

Dear Sir

Your favor of 10th July came to hand during the absence of both myself & travelling from home and hence the delay in replying thereto.

If I am to take the second $250000 policy I must stand upon for a few weeks, as I cannot take it up just now.

Yours truly,

Thos A Edison

19th July 2

Lorette Electrique Edison
88 Avenue de l'Opera
Paris
France

Dear Sir,

Referring to your favor of 29th June I would beg to point out to you that the delay in bearing up and Invoices having to go to Mr Vallentin the payment where as our Shipping Agents and you the B/L immediately goes on shipped. So that the delay is not with us.

For the future I will send you a duplicate Invoice so as to guard against delay on the part of others

Yours truly,

Thos A Edison

19th July 20

Messrs Paskas & Bailey
38 Avenue de l'Opera
Paris
France.

Dear Sir,

Your favour of 26th June came to hand during my absence from home and hence the delay in replying thereto.

We receive the same complaint from England but I think if you look closely into the matter you will find that they are unfounded. The Siemens machine is far from being economical they are loath without the slightest hesitation as to what it will cost to run them. I think when you complain of the prime cost of the machine you should at the same time give a statement of the comparative cost of running an Edison 60 light Plant & a Siemens 60 light Plant.

Sir, fully alive to the importance of bringing down the price of Dynamos but as I am now selling them at next to cost there is not much chance of my doing so. Thus however asked to quote

all the small machines i.e. 30 Light (G), 60 Light (F), 150 Light (K), 250 Light (W), [illegible] New York and this will make a very material reduction. You will find I have listed the machines recently sent and on this basis.

You will also notice that the cost of the 150 & 250 Light machines is very much less proportionately than that of the 60 Light machine.

I will certainly reduce prices to you at the first opportunity but I think as you go deeper into the manufacturing business you will find my prices are not high.

Yours truly

Thos A Edison

FROM
THOMAS A. EDISON,
Menlo Park, New York, 20 July 1882.

TO
Major L. B. Eaton
Vice President

Major Eaton, Your memo of 20th July. Brush Storage. I believe you have Stockley letter 10A also letting Rich Sadona marked 10B I will let you know something on Storage when do you want it by. Illuminating Co Finances. I return you herewith Final Balance marked 10C.

Your memo of 24th July. Brush Storage. I return you herewith Clo. Ashley's letter 24A. Mazeppa at Hula. I return you herewith Nichols letter marked 24B. I think you should see Johnson about this matter, he said some of the Remsen people while he was in London & he can probably be of assistance to you in influencing the Pom-R-R people.

Dynamos. I return you herewith Package of correspondence marked 24P. I suppose the Dynamos are coming all right.

Mazeppa I return you herewith

FROM THOMAS A. EDISON, No. 65 FIFTH AVENUE. New York, ... 188

TO

marked 14 E. Also return you Lewis' letter as to Duncan marked 14 F. & 14 L.

I return Isolated Copy also marked 14 G.

Bandeen report in marine at Phila. Insnd. Painter wrote Dayrie (some time ago) that the report was not in the dept. Bruckes told Insnd two or three weeks back that Burchard the Director Genl of U.S. Mints had the report. Painter now writes that Burchard has gone to California & will not be back for two or three months that if he got the report he never deposited it in the Office at Washington. So I suppose we must now let the matter rest till Burchard returns

Please answer enclosed letter from Allison Bros as to Dynamo.

My European Cos. Yes. I am sorry these Yes have been so long delayed but it is quite unavoidable: Insnd will buy the lots them up as soon as he has got through the business

THOMAS A. EDISON,
No 65 FIFTH AVENUE,
New York, ... 188

TO

which has accumulated during your absence. He says he will buy it at your hands then the end of next week. The trouble is that the old Ajax requires analyzing & no one can do this but Insull. Have not yet how meaded Croft can arrest him till he will let you have the Ajax just as soon as possible.

Walter Power at Niagara Falls I enclose you letter from Geo. B. Walter pointing attention. It came during my absence.

Yours Favor of 17th to hand referring to an enclosure not one of which has yet reached me.

Your memo of 17th with Wilson on Lyon (which I return herewith) received. I have read the article and with the slight notes I have made think it all right & should say go ahead and publish it in the Bulletin

Thos A Edison

FROM
THOMAS A. EDISON,
Menlo Park N. J.
[illegible] 20 July 1882

TO
Chas. L. Clarke Esq
65 Park Avenue

My Dear Clarke,

Your various letters of yesterday's date received.

I certainly do not believe in investigating accounts at all.

I have sent your questions as to the basis of your estimates on Central Stations. I believe the Dynamo should be one mile square for various reasons which I will explain to you when I see you.

You can make no arrangement with the [illegible] you have in view for supply of motors.

I will design a motor as you suggested.

I think you should give an order for 100 meters & 1000 feet of plates & fixtures.

The dynamo lamp in the meter should be on the Consumers side & not on the Company side.

Yours truly

Thos A Edison

FROM
THOMAS A. EDISON,
No. 65 FIFTH AVENUE,
New York, 30 Oct 1892.

TO
Capt. R. Beaton
Sea Res.

Dear Sir

I enclose you herewith Mr. Borden's letter of 27th together with Mr. Edison's note on same. Also return your Mr. Borden's letter of 27th inst. Mr. Edison says Mr. Wallace should look into Brush's Patent. The device claimed is very old & was operated by Mr. Edison long time back when he was using Platinum-lamps.

Yours truly
Frank Lovell
Sec'y

FROM

THOMAS A EDISON,

No 65 FIFTH AVENUE,

New York, 20th July 1880

TO

Major Eaton

Vice President

Bulletins for England. Israel sends Bulletins to my various Foreign Correspondents among them the people connected with the Houdin Co I have the impression that Johnson said something about the building which is next to 57 Holborn Viaduct probably being taken but I am not sure. You had better ask him about it.

15 Light Dynamo. This was never considered a success by me. We intended modifying it and will do so as cheaply as possible.

Cost of Lamps I am sorry about cost & selling price of Lamps in Chili but I cannot help it. They are costing us $1.00 just now

Great District. I will give Osborne the time & attention necessary

Since writing my last to you I have received the information as to my total holding in the various Companies also list of Stockholders

Yours truly

Thos A Edison

20th July 2)

Arnold White Esq
Secretary
Edison Electric Light Co
74 Coleman Street
London England

Dear Sir
Referring to your letter suggesting that the 10 candle lamps be called "C" lamps I would remark that it is impossible for us to make this classification of lamps. All our lamps are either "A" or "B". That is made to turn on A or B circuits irrespective of their candle power. The ten candle lamps ordered by you are 10 candle "A" lamps & must not be called "C" lamps

Yours truly
Thos A Edison

July 20th 2.

Major J. F. Wilder,
69 - 5th Ave. N.Y.

Dear Sir:

I receive from you through Mr Seely rough copies in cases #28 to #38 inclusive, also tracing in cases #10 to #15 inclusive.

Cases #28 to #32 were among those delivered to you June 10th 82, but I already have the claims in those cases and do not care for the rough.

Cases #37 to #42 both inclusive were the ones I wrote and asked you for. The specs were prepared by me, and were delivered to you June 10th. Now if you have not presented the rough copies, you would do me a favor by letting me take your office copies temporarily, or if you have not presented office copies, by ordering for me Edison copies of the specs from the Patent Office. Kindly let me hear from you on this subject.

In regard to case #39 which you send me rough copy, I have no record of taking Mr Edison's oath in this case, and do not think he signed the papers here at the Park.

Yours truly,
Rich. N. Dyer.

[illegible] July [illegible]

[illegible]
[illegible]
[illegible]
[illegible] Phonographic
[illegible] S.W. England.

Dear Sir,

Referring to the letter we wrote you referred to above I would call your attention to the fact that in English Patent 3927 and U.S. Patent 218,500 a machine is described where sound characters were indented in paper and the characters reproduced were from those indentations. This apparatus was exhibited in Paris and at the Universal Exhibition and was seen by Mr. G. M. Tainter and Mr. Bell at Philadelphia the day before they left America when they were [illegible]

This was the origin of the Phonograph. You will notice in my Telephone & Phonograph Case Book Entry 9-12 dated July 21st 1877 the top figure shows what is indicated in last paragraph of No 2909. This was the crude application of the Phonograph's principle to Telephony. The wheels had their surfaces the combination of a [illegible] cam. So touching a [illegible]

Key the contact spring was vibrated and transmitted the waves such the evidence through the medium of the carbon pension regulator, which it was rendered audible by a Telephone receiver Exhibit No 12, dated August 17th 1879 shows the Phonograph now developed and used as a recorder in a Telephone circuit. It is the bottom figure.

I send you herewith the contract which is invalid as he refuses to sell any phonographs & only exhibit them. We had a great deal of trouble to get any money from him but I think that eventually $1000 were obtained for Theo. Puskas 38 Avenue de l'Opera. Paris will advise you fully as to this. You shall receive four years pay. I have not heard from Rottay. You will notice in his letter he says he can act alone in contract with Rottay that we are allowed to disclaim whatever is necessary. Please take great care of the agreement and return it at your convenience as I have no other copy.

I am very sorry that there should have been so much delay in answering your letter but

as I was away together with Mr Johnson & Mr Samuel there was no time to reply

Yours truly

Thos A Edison

July 22d 2.

Thos J. Handford, Esq
147 Southampton Bldgs London W.C.

Dear Sir:

I beg to acknowledge receipt of your letters of the 29th ult. and 6th inst. and also copies of patents. I have not looked into these matters yet, but will as soon as I can catch me Edison. I wish to thank you for the copy of your pamphlet of "Nails."

Case 54

I enclose provisional and complete specn and drawings in this case. The Continental case (No. 44) I have forwarded this day to Paris.

I wish to call your attention to points described but not shown, and I have attached to the papers a sheet of rough sketches, so that you can illustrate the devices if you think it desirable.

Page 2 - 14th l. - "Electro-motors may be used for producing the counter electro-motive force." This is shown in sketch No. 1. There would be a motor +

3/

for each secondary battery shown in figure 1.

Page 5, 3d l. Shunt to cut out secondary battery or combined motor and generator. This is shown in sketches Nos 2 and 3.

Page 8, 3d l. Dividing tension in each circuit on the same principle that is used in main circuit. This is shown in sketches Nos 4 and 5.

Case 55 and 56

Data forwarded specs and drawings in these two case, in which I think all features described are shown.

Yours truly
Richd. H. Dyer

X

July 27th 2.

Cie Continentale Edison
33 Avenue de l'Opera.
Paris - France.

Gentlemen:

Cases 44-45 and 46.

Enclose papers and drawings for these Continental cases. The Powers of Attorney will be sent in a short time. The corresponding English Cases 7 & 7, 54, 5 & 56 have been sent to Kalkoen to-day.

Yours truly

Richd A. Dyer.

FROM

THOMAS A. EDISON,
65 FIFTH AVENUE,
New York, 23rd July 20

TO

Major L. R. Eaton,
Vice President

Your memo July 19th.

Ben Candle lamps. You must be careful about doing business in Ben candle lamps. We did not pick up yet to make them economically. They will cost not less than 50 cents the carbon being so hard like & our breakage so great.

Bordens letter. I am very glad to receive such letters & always read them with pleasure. The lamps will last more than 600 hours but in our estimate we do not put them right up to the limit. We make an average of 600 hours whereas we know they will last almost twice as long. There are many contingencies we wish to provide against.

Bordens mistake about the four thousand a light is owing to the fact that the South American figures were based on 10 candle lamps then of course the two dynamos would give four thousand lamps but only of ten candles.

THOMAS A. EDISON,
No 65 FIFTH AVENUE,
New York, ... 188

TO

which would not be equal to a 10 ft gas burner. In some places it requires 12 ft of gas to give ten candles in other places seven feet will give 10 candles and in other places 7½ ft will give 10 candles according to the quality of the gas and dependant on whether the pressure in the mains is in proper relation to the size in the burner. We count that 2000 standard candles per hour are equal to a thousand feet of gas in any part of the country. In most places it is more than equal.

Safety Catches in Chandeliers thread. There is more danger with them in than out. I think we permit behavior to dictate too much. Our company is every day this week & will go to pay them.

Station Cutness. I think we should have to take the leap into the dark.

Russell I thought he was discharged

LA/6
3

Long ago.
Earl Albert Dickinson Johnson & myself have taken this matter & I think we will start the station with as much dramatic effect as any of us can coin for.
Clarke's statement for Bulletin
Return it herewith with pencil memos on it.
Baltimore estimate. I am communicating with Sauk about the estimate he proposes
Complaint against Dean. To prove any complaint on the part of the Isolated Co I will after the first 20 Rs have been delivered between ~~all~~ everything from the machine works except "C" Dynamo Job anywhere on dock or depot within city limits. To I will do all this work packing & carting at my own expense. This saves a considerable saduction in the cost of machines
Yours

Mapes & Weeks

29th July 1

Your memo 27th July.
My House. My impression is that it is worked well enough.
Lamplighs American 22nd I send the article you refer to.
Brush patent. The device Brush uses of compound multiple arc is worse than useless. It is destructive to lamps.
Boston Inc. I return your letter & one I have read & the same subject. I think we should do well to make an exhibit of 500 light with 2—250 machines. All the manufacturers go there & it is an exhibition worthy of our attention & by exhibiting we would bring our lamps & all new England manufacturers & Bergmann's changes. I will look into that. There must be something young.
Sarlatt Co. Statements looks extraordinary well

Hiram Maxim

24th July 2

Geo A Rice Esq
Genl Supt
Western Edison Light Co
51 & 53 Wabash Ave
Chicago Ill

Dear Sir,

Your two favors of 19th & 22nd to hand. I have not seen Sampers lately so have not seen the Rosc. Cab you refer to. It is certainly not the one on electric of which I was to send you as I have not received the Cab or the Electros from the Engraver yet. He promised in a telegram to ship them to day so I hope to send you an electric lighting express.

As to Mr Guilbert's request for information as to a small motor for a skiff Mr Edison has nothing of the kind. It would be necessary to get the current to work the motor & it would certainly not be economic to have a small steam engine in the boat to operate the motor - much better use steam direct. The only other way of getting current would be from secondary batteries & these are entirely too bulky besides being-

Mr. Jaq 2

Mr Samuel Swift Esq
Chairman
Canon Electric Light Co
65 Fifth Avenue
New York

Dear Sir,
I beg to acknowledge receipt of your favor of 20th inst for which accept my thanks
Yours truly
Saml Insull

Far from economical.
Return Dr Gilbert's letter.
Yours truly
Saml Insull

Francis R. [illegible]

[redacted] July 2

Dear Sir

I have yours of 20th. [illegible] as we know what we are [illegible] on "regulars" now. Since you have [illegible] up again I have not received the papers that you were in the habit of sending me since you left here.

We ran very [illegible] with tallow candles. We shall put the tallow candle lamps in [illegible]

Dear you don't [illegible] tallow lamps [illegible] [illegible] I have [illegible] [illegible]

I shall [illegible] [illegible] platoon [illegible] [illegible] with [illegible] we are [illegible] weight for [illegible]

The [illegible] works [illegible] the [illegible] price for [illegible] [illegible] I think [illegible] [illegible] the [illegible] you [illegible] [illegible] open [illegible]

You had better place [illegible] [illegible] with me [illegible]

TO

[illegible]

[illegible]

immediately.

Please have Lawson dip some carbons in kerosene for 12 hours then plate the ends of C.K. - take out & dage run in the moulds and put in kerosene until [illegible] for use then put in plate and burn through. I think this will prevent carbons from absorbing water & oxidizing but do no harm as the kerosene will evaporate in the vacuum.

Yours truly

Nikola Tesla

758.

24th July 2

Geo. A. Hamilton Esq
Western Union Telegraph Co
197 Broadway
New York.

Dear Sir,

Your favor of 22d has been referred to me by Mr Upton.

It would cost too much for us to change our dies in order to build armatures for you.

We would furnish you a complete Dynamo at moderate cost and would make a reduction on the first one as we should like to get your trade.

We feel confident that our machines would give you much better satisfaction than Siemens'

Yours truly

Thos A Edison

24th July 2

Arnold White Esq
Secretary
Edison Electric Light Co
74 Coleman Street
London E.C. Eng.

Dear Sirs

I give you below list of prices as asked for in your favor of 29th June:

	Complete machine	Armatures	Burners
"C"	$ 10,000.00 (about)	$ 268.00	$ 2.25
"K"	1,500.00	405	1.25
"L"	900		1.20
"N"	550	150.00	.40
"O"	185	80.00	.25

I will send you the price of the L armatures at present and hope to be able to do so in the course of the week. The reason the prices of the C, K, L & N dynamos are comparatively so high is that the wire on them is so much more [illegible]

the smaller brushes as you will see on examining them. I have not so far made the P (500) machine. If I should do so I will give you prices.

I cannot give you so cambric lamp price which we have made some more of them. The fuses are of necessity made by hand & were consequently somewhat high priced. The order contained in your favor of 1st July is receiving attention.

Yours truly

Thos A Edison

P.S. The above prices are all for New York with the exception of the price on the Complete C machine which for the present I can only quote delivered at my works in Newark N.J.

July 26th 82

Hon. Commissioner of Patents

Sir:

I would like to obtain at the earliest possible moment, for my personal information, a list of all applications for patents filed in my name as Inventor, from January 1st 1882, to July 25th 1882.

The charge for preparing such a list, including any examination that might have to be made, I will pay as soon as I am informed what it will be.

If possible, I would like the list to include in addition to titles dates of filing and serial numbers, the numbers given by me to the cases before they are filed.

Kindly let me know when I may expect this list.

Respectfully.

Thos A Edison

Motor Co. If it were purely an Electrical Motor Co he would then be able to understand. Of course in all such matters I am guided alone by him

Yours truly

Saml Insull

Many thanks for your kind wishes

25th July

William H Kelly Esq
6th Judicial Dist of Conn
61 Union Square
N.Y.

Dear Sir,

Your letters to Mr Edison & myself, of 22nd to hand.

Mr Edison will be in the City every day this week & it is consequently difficult to make an appointment. I think if when you want to see him you enquire at 65 5th Ave you will doubtless be able to learn his whereabouts.

Mr Edison says he does not exactly see why you want me to be an Incorporator of the Canal

23 M Sulley

Major S. D. Eaton

Your memo of 22nd inst. Set Cop expires at Menlo Park. Roll is for work on 28th District. I think this should by all means be continued. Wiring my House. I am satisfied with the wiring of my house & the Insurance people do not like it. They may cancel their policies. I do not think I need Insurance now I am able to dispense with Insurance

Thos A Edison

Orange N.J. Aug 2

Major Eaton,

(Yours memo 25th July)

Lawrence R. Have the estimates for the Lawrence Plant been made yet and if so have they been sent in. I would very much like to have a copy.

Price. We ought to be able to give Ford figures in a few days.

Mr Morris Edison. I return you the letter which is interesting they seem to take quite a lively interest in electric lighting.

Complaint against French et. I had your enclosure 25, B, in my hand in Clarke's room yesterday morning. I fancy I must have opened it.

Builders Statement. This shall be returned to you as soon as possible.

Office Work. I have let no new orders of any estimates I am of have given you in this subject. Whenever I get any orders on Builders estimates I shall then be compelled my hand

Thos A Edison

27th July 2

Arnold White Esq
Secretary
Edison Electric Light Co
7 Coleman Street
London E.C.
England

Dear Sir,

Referring to my letter to you of 24th inst I now find that I shall be able to sell the "C" Dynamos for New York at $1000. This is the maximum price and I am in hopes of being able to raise this later. The machines will run 1200 lights normal & the engines can be forced so as to enable you to get 1400 lights.

Yours truly,

Thos A Edison

27th July 20

Col Geo. L. Gouraud
London
England

Dear Sir,

As requested I beg to give you below prices of machines we are now building

		Complete machine	armature
1200	Lights	$10500	$1200.00
250	"	1850	400.00
100	"	900	[illegible]
60	"	550	150.00
15	"	185	40.00

The above prices are all F.O.B. New York. I will give you the price of the 2 armature in the course of a few days.

I will supply all Electric Light apparatus to you at the same prices that I do Boston. As you & should you at any time require anything of me in regard to a supply of lime & casting wire

you to apply to the Secretary
of the London Co for prices
I require payment on
shipment of goods and shall be
glad if when ordering you will
kindly arrange for the payment
of my bills by some reputable
Bankers on presentation of
Invoices & Bills of Lading
I enclose you herewith
Benjmann & Co's Catalogue. I can
arrange to take your orders filled
by them at 25% discount on
published prices providing the
order is a large one otherwise
the discount will be 20%
The cost of lamps is the
same as heretofore
Yours truly
Thos A Edison

785

28th July 2

J. H. Vail
Supt
Edison Co for Isolated Lighting
97 South Avenue
"Nut Grove"

Dear Sir,

Referring to yours of 27th I object very much to my furniture being moved & my carpets taken up. If an Insurance man wishes to inspect my House he must be contented with what he can see without moving anything otherwise he need not come at all.

Yours truly
Thos A Edison

28th July 2

J. Thomas Esq
Detroit Insurance
Detroit N.Y. Ins. Co
Detroit
Mich

Dear Sir,

In reply to yours of 26th Mr Edison desires me to state that the Mackenzies address is 130 Fulton Street New York City. Edison will send you a photograph & his wife as soon as he has some more printed. Just now he is quite out of them

Yours truly
Sam'l Insull
Private Secy

July 30 2

Meadowcroft –

There are several hundred of my note books in the safe at 65. I need them badly now for interferences. Will you please have them made in bundles with thread strips & have George or some general messenger sent out with them. I may be gone 2 trips – I am afraid to trust them to the express.

Edison

Dear

The Composition you want to use on the Commutator for bars in place of Copper is composed of 85 Copper 15 tin. Better have few small Castings made of good ok first have them tested make it. 11 pct tin ½ of 1 pct of aluminum & 88½ Copper

Edison

July 29 2

Randolph

Please give me number. [illegible] turned out weak ending [illegible] also shipments - pls do the same [illegible] weak in port & com't & every week

{ [illegible]

July 31 2

Telegram

G. G. Clark

65 S. Main St. N.C.

When did the drawings go to Baltimore. Have wires with E. and L. drawings go Answer quickly

[illegible]

Telegram July 20

George W. Dyer
519, 7th St., Washington D.C.

Get list of any appealed and abandoned cases. Also one of case where hundred and fifty fine is filed. Act of murdering Czolgosz was unallowable.

T. A. Edison

July 31, 2

Major G. D. Milbert
69, 8th Avenue, N.Y. City

Dear Sir,

Mr. Edison finds that he will be unable to collect the necessary data for his pre-statement in the interference on patents 448,448; before August 8th, and therefore wished me to write requesting you to obtain a postponement of the time of filing for one month if possible. By that time he expects to be able to prepare the statement

Yours truly
Richard N. Dyer
(RNM)

July 2.

G. D. R. Hoome Esq
Trenton
New Jersey

Dear Sir
will you please take charge of the case referred to in enclosed summons. Will it be necessary for me to personally go to Trenton. I do not want to go as it will seriously interfere with my business
The suit refers to some promissory notes given by Gilliland & Co
I enclose you copies of correspondence in the matter. I have never

am a partner in the firm of Gilliland & Co and am in no way responsible for their financial obligations
I hold a mortgage from them but that can in no way make me responsible for their note
Yours truly
Thos A Edison

N.Y. July 2

Robt S. Innes Esq
Minneapolis
Minn.

Dear Sir,

Referring to your letter of 28th we could have Engines made and introduced my system of Electric Rail Road but cannot possibly spare my men until all my experiments here have been completed — which will be in 2/3 or three months

Yours truly

Saml Insull

N.Y. July 2

Mr Wm H. Meadowcroft
65 Fifth Avenue
New York

Dear Sir,

Your favor of 29th to Mr Edison came duly to hand.

I will call on Messrs Frazer & Co. next time I am in N.Y.

Yours truly

Saml Insull

FROM THOMAS A. EDISON, Menlo Park N.J. July 1882

TO CHAS. BATCHELOR, PARIS, FRANCE.

My Dear Batchelor

Your letter of 27th came to hand this a.m.

Lamps. I think you will find the cracking of the platina wire on one pole in all the lamps made by us for some time. It would be as well for you to find out what the duties on the glass bulbs we are now sending you is. The Corning people make the best glass in the world it is perfect & reliable & we never have any trouble. It is possible we may be able to ship you bulbs at a price which will compete with French glass blowers.

Engines & big Dynamos. We are going to use the Armington & Sims Engine 175 horse power going up to 200 h.p. The price will be about $1850 or $1895 we are expecting our sample engine from A. & S. in a week or so & I will let you know about the test. In the meantime (4) you are now getting ready for shipment to Europe for your people we are obliged to

FROM
THOMAS A. EDISON,
NO. 65 FIFTH AVENUE
New York, ... 188

TO
CHAS. BATCHELOR,
PARIS FRANCE

Parlor Engines because we could not get A & J Engines in time.
Screwing Bolts. at French Court we have the large Buffalo Bolt machine. One $800 boy cuts all the bolts used in the shop.

I like to have you review things & take advantage of them by sending them round to the people who can take advantage of them

Yours truly
Thos A Edison

New York 20

Francis B. Upton Esq
Barron Camp Co
Hanover
New Jersey

Dear Sir,
Your two favors of 28th came duly to hand.

I return you herewith the letter & bill from the Morristown Savings Bank. I have shown them to McAdoo who says that although it is certainly an imposition he could see what can be done in the matter.

As to payment on McAdoo's assessment I am going to try & get you $2500 tomorrow & if I am able to do so I will telegraph to you that I have done so.

I am sorry I was unable to call down to see you today and after I sent my first telegram you kindly turned up here which quite prevented me doing so.

I shall be at 65 5th Ave at 1.00 tomorrow (Sunday)

Yours truly
Paul Sewell

Messrs Bergmann & Co
108 Worcester St
New York

Dear Sirs,

Your favor of 28th to Mr Edison & of 28th & 29th to myself to hand.

As to the Regulating Resistance Boxes for main line we want to bring the light from 20 candles down to invisible or just barely red.

I note your remarks as to the commission on London orders going to credit of regular agt & will have great pleasure in complying with your wishes.

As to your complaints against Maynard Perkins & Beaudley I do not think they are justified & know you have no objection to shipping through them but cannot be accepted. Considering the large amount of our Foreign business is now it is essential that our shipping should be conducted through and channels as extensive the work of my office here would be double. Maynard Perkins

& Frankly complain that you never know what you want to ship yourselves, that you expect to be able to get goods on board ship on the day of sailing & that notwithstanding they do all they can to meet your wishes your habit is to tell them you could do much better yourselves. They also state that you asked for a "permit" to ship by a Liverpool Lines after they told you that my instructions to them were to ship to London direct. You must remember that freight cannot be taken on board so late as Express goods & that we ship by the cheapest way in order to save money. The special trouble you complain of in your letter of 28th could not be helped. The steamer was full & P. & O. were unable to get permits for the machine works applied for several days before sailing.

What I can't understand is that you raise complaints when no one else does although you and I had a dozen of about a dozen. Yours truly

To P. & O. per [illegible]

Saul Israel

21st July 2

Chas L. Clarke Esq
65 Fifth Avenue
New York

Dear Sir,

Your three letters of 29th to hand.

I have received the meters (one 25 & one 50 light) ordered some time back & my telegram was meant as a reminder.

I enclose order for one standard Hydrometer to go to London & one to Paris. I think this is sufficient.

Your letter as to Power. Of course the Dynamos & motors are to be in series & I see no reason why you should not run up as high as 2000 volts. I never had any other idea than the series plan.

I think you are wrong in saying that with 750 lights 4 H.P. are required. All that is necessary is that there should be provided a Crane or mature & appliances for handling it quickly. We must keep

down the Investment as much as possible & in a case like your supposed what I suggest is quite sufficient. It is to be presumed that with a place having 750 lamps would be most amply provided with light. Supposing one machine gives way bring the light down lower & on the load on the other two or else turn off some of the light altogether whilst the new armature is being fixed which should not take over 30 minutes. And I think for that period the light given by the other two machines would be sufficient to tide over the trouble. Of course lowering all the light or cutting off some altogether would cause some little inconvenience but I think you will find people will suffer this in order to save an interruption.

You must remember that if we overload our estimates in this manner it will prevent our getting orders in many instances

Yours truly

Thos A Edison

Menlo Park, N.J.
July 2

Major S. B. Eaton

Your memos of Wednesday 26th & Thursday 27th came to hand this morning & I return Borden's letter. I return you herewith 28th. I do not think I have any remarks to make on it

Moore. I will see you about him

Mechanics Fair Boston. By all means make a good show but I do not think the Tarrant Co should bear the cost or part of same. I think it is chargeable to the Scolatt Co

Moses Arc Lamp. I have seen Moses lamp. He does not pretend that it will work in multiple arc in our system. All he has is simply an ordinary arc lamp.

Thos A Edison

I enclose you letter of Olive Harper. I have written her saying I can do nothing but that I have referred it to you thinking it possible you might be able to help her.

T.A.E.

July 2

J. K. Darling
8 Masonic Hall
New Brunswick

Dear Sir,

The drain running through the property of Mr Dutchman since he was made years ago by the Menlo Park Commission. So far as I know fence out just now the damage from my house was connected with it about six years ago. Since then it has been an open drain until the time when my father-in-law put the fence up, when the piping was laid down in order to abate a nuisance. The same remarks apply to this last ad as to the fence i.e. it was put down while I was in Florida without my owner's knowledge & by others who has no power to act for me.

I cannot find the Dutchman drain tend while the fence was being put up.

Please make up an answer to the complaint you can & of attorneys you want to tell anyone about the matter my Secretary Mr Russel

July 8 2

Telegram

D. M. Rice
3 Masonic Hall
New Bedford

Mailed letter today.
T. A. Cousin

will drive over any
evening to see you
Yours truly
Thos A Cousin

July 25 2

Mr J. Hammer.

Did you receive a letter which I sent to Mr J. when I explained the great importance in the 250 Light machine of setting the brushes in the direction of rotation to the non-sparking point. For fear that Johnson did not give it to you I will state that the K or 250 Light machine will give ~~[illegible]~~ 100 volts when load is on and when the brushes are set a right angles to the slot or open part of the field but the sparking is very great but if the arm is moved in the direction of rotation you will reach a point where there will be absolutely no sparking. and you will still have sufficient Volts hence in practice we find that the K machine gives the least trouble with the brushes. This cannot be done on the 60 Light or Z machines for the reason that it does not give Volts enough to permit of setting the brushes in the direction of rotation to any [illegible] point.

Yes

If it is attempted to set the Z brushes away up towards the top where there is no spark the volts will fall as low as 85. But I have made the K and the new L or 150 light which you will see is so powerful & with such an excess of volts that you can avail of and use the non-sparking point & still have sufficient volts to bring the lamps up to proper candle power & also lose several per cent on the conductors, if the brushes are set at the non sparking point with the full load & 1/2 are taken off it will spark slightly as the neutral point is now nearer to the old place - in one special experiment on one L machine we adjusted the brushes in the direction of rotation so far that there were at right angles to the brushes position on the Z. & still we had enough volts to bring the lamps up. You should "harmonize" this dodge on all our men who put up plants there

(d)

& impress on them the vital necessity of turning the brushes to the non-sparking point on the K & L. at all times.

I have just heated a duplicate of your No 3 for Milan Italy & [redacted] Setting the brushes in advance (or) in the direction of rotation, I took out the adjusting devices & moved the brush rigging up as far as it would go until it struck the pillow block. This placed the brushes about 5 or 6 blocks beyond the regular position in the direction of rotation, and I found that the sparking was so greatly diminished that I kept adding lights, until I put on 1630 all we had and the brushes carried the current without trouble, we also found that there was a gain in economy [illegible]

for the reason that in the old position
2 bar loops around the armature
were short circuited all the time one
brush touching two blocks of course
short circuits one loop & the other does
the same, and this short circuiting
is done in the strong part of the
field & the powerful current
circulating in this extremely low
resistance produces powerful sparks on the brushes. If now the Cat
is moved in the direction of rotation
for it approaches a short circuits loops
which are in a weaker field hence the
sparking is diminished & the economy
increased. This effect takes place of
course on the K.+L. on the K+K
we get 1/2 a light more per indicated
H.P. The reason why we did not
try it on the large machine before
was the belief that the Volts or
pressure would fall too low
but by connecting up the field
in 3rd we were enabled to put

on the 1680 lights at 20 candles, we
use the set nut on the brush rigging
to hold it in place of the old adjusting
devices.
The K+L machine I think are the 1st
Dynamo machines specially constructed to convert
the required power when their
brushes are at the non sparking point which
in these machines is the normal position,
If with any other machine such as Siemens
etc it is attempted to set the brushes
at the non sparking point the power
of current conversion of the machine
is reduced nearly 1/2. I am reconstructing
the Z machine giving it more margin so
that it will convert the proper power
when the brushes are at the non-sparking
point. As the nearest thing for
the public to handle is sparking
brushes this will eliminate that difficulty

We have 3 different varieties
of Automatics requirements to
go with Sealed or auto working
at Menlo going through the
Evolution test & I think one
of them will prove reliable
Did E.H.J write you about
running a feeder out of
your Hydraulic station when you
increase your lamps so as to
keep the pressure on your
distributing mains Event —
have all your drop of
E.M.F in the feeder —
Please show this letter to Dr
Fleming — yours

T A Edison

1st August 2

Dear Mr White,

Mr Edison has requested me to send you the enclosed letter to Mr W. J. Hammer for your perusal. Please hand it to that gentleman after reading. It might be well for you to keep a copy of it as it gives some rather important information.

Yours Sincerely

Saul Sensell

I hope to get the opportunity of writing you a long letter in a day or so.

Copy of the Receipts
J. K. Graves
N.Y. City

Copy
Interior Office
The Chase Bank Bank
Will please pack up & send
the enclosed box to the
Chase Bank
Paul Cravell

2nd August

Chas Batchelor
Solly Sur Seine
France

My Dear Batchelor

Acheson asks
from Milan for plan of
Foundation of Dynamo shipping
shipped to Genoa this week I
send it to you to forward to
Acheson not knowing where
to address him

Yours truly
Sam Insull

2nd August 2

Major Cole

Yours 7th August 82 rec'd yesterday. My House was burned while I was in town on this subject. Mr Rollen if he will let me know what such he wants I will send them if I have them. Clarke will be able to give you the information about the Cyprus & Upton that about the Camps.

I see no Camp. Mr Randley has a camp at Sh. What he showed me he carefully & besides he was the Buck Ridge.

Said. He talked a great deal too much. I think he should be provided with a secondary battery such as Clarke & Moore & myself would select to be used. And then he should be kept on some special class of work as coal mines or timber cut west say Colorado.

Thos Gibson

2nd August

Samuel W. Sewell Esq
The Hawaiian Islands
Red Point

Dear Sir

Referring to your letter of 18th July I have had all my corresponding to Raphoe & Donegal & carefully examined & have been unable to find one from D. Scaughaugh.

I am now having all my general letters for 1878 examined & when this is finished I will advise you as to the result.

Yours truly

Thos. E. Ellison

2nd August

Chas. L. Clarke Esq.
61 Fifth Avenue
New York

Dear Sir,

Referring to Major Cates memorandum to you of 20th July which I return herewith I do not remember any instance in which a change has been made by you in my electric light system without consulting Cates. On the other hand I have always found you very considerate in consulting or carrying out orders with economy & the system generally

Major Cates's memorandum was certainly no suggestion of mine as so far as my recollection serves me I have never [illegible] of your taking the initiative without consulting me

Yours truly
Edison

Aug 8 - 2

L. Ed Lomax Esq
100 Broadway
New York City

Dear Sir

Replying to your of 8th inst.

I have nothing to suggest in the Middleton Interference except that I want you to win the case as it seems unwise to me to allow to pay no more money.

Yours Truly

Thos A Edison

Aug 8 - 3

Mr McFarlan Esq
500 Fifth Ave
Lower Orange

Dear Sir

Owing to press of 29th Aug. I have no time to devote to such matters and am compelled to decline connection with outside inventions of the value of your idea.

Yours Truly

Thos A Edison

Aug. 6 - 2

Lyman Abbott Esq
7, Christian Union
20 Lafayette Place
N.Y. City

Dear Sir

Referring to yours of 30th inst. I have no objection to the article "How to Succeed" being published as you suggest if it is stated that it was the result of an interview with me

Yours Truly

Thos A Edison

Aug. 6 - 2

E. J. Clarke Esq
45 5th Avenue
N.Y. City

Dear Sir

Referring to yours of 1st inst. Please state to Mr. Benning that we cannot give data for use in these records, that is until the station is started.

Yours Truly

Thos A Edison

Chicago [illegible]

[illegible] Esqr.
[illegible] Street
[illegible] Brooklyn
N.Y.

Dear Sir

I return herewith [illegible]
deed executed by Mr. Edwards

I find there the drain from
the Cameron house, [illegible]
the Hutchinson [illegible]
[illegible]
Spencer [illegible]
the house and [illegible]

Yours Truly

Paul Sweatt
Esq

August 27 [illegible]

[illegible]
Pennsylvania [illegible] Co.
Lawrence N. J.

Dear Sir

Referring to your favor of 3d inst. in which you state the New Central Station Electric Arc Lamp successful, I will be very happy to make such a letter as you desire. My business is so [illegible] that I cannot allow to [illegible] the time which [illegible] I am absolutely independent of [illegible]

Very Truly Yours

Thos A. Edison

Aug. 7.

Messrs Ware & Co.
108 Worcester Street
Saw Works Lady

Gentlemen

Please send me sketch of the time light one each electricity that you are now designing for me for the small town plant, how long will it be before you can have one ready. It is very important.

We also want a wood mill with small lathe, shaft like time smaller the thermostatic regulator small size cost not more than $35, Have you any suggestion? Will you try your hand in designing one for me, it is for use in the small town system and it is very important we have one soon. If we can get that Kettle Stitcher going quickly we can get orders now for use all winter. This is a million dollar opening and if the stitcher approximate, the

Everything is going on the Brite now and
excavation almost finished. we shall be
behind with the water and that thru
light channel, [illegible] no probable
[illegible]

Thos A Carson

Augt 8th 1

Chas E. Clarke Esq.
No 5 Avenue
Detroit City

Dear Sir

Referring to your of Aug 5th I directed Mr Clarke to compare being sent in as claim. He thinks it as well founded any claim as claim.

In a business district of Rent on 80000 Maximum there would not be more than 7000 extra. In a private house district there is no turning off no turning. Rent must have been time as much since as now was before war change this to claim?

Yours Truly

Thos A Ewing

Augt 8th 2

E. E. Clarke Esq
No 5 Avenue
New York City

Dear Sir

Referring to yours of 5th inst I think it a fair value to put upon rather in any kind of property as mentioned above.

Yours Truly

Thos A Ewing

Aug 8 — 2

Geo A Hamilton Esq —
Executive Office Wks W. Tel. Co.
145 Broadway
New York

Dear Sir

Referring to your favor of 7th inst
One of our J machines could be wound to
give say three volts to incandescent lamps
or ten thousands of an ohm, we have
also a machine for traction use in our
regular J machines one of 235 ohm resistance
and giving 55 volts and one of 10 ohm
giving 110 volts. Five hundred lights of
100 ohm each could be worked from
this machine making the external resistance
2 ohms or fourteen times higher than the
internal resistance requiring about [illegible]
ft lbs of electricity or nine horse power of
which 3/4 only is lost in the machine
robbing 1/2 horse power for friction and
7000 ft lbs on field. We will guarantee the
machine to run perfectly cool and give a
steady current. Price of regular J as above

2.

$1200 cash up. We also make attachments to communicate whereby one can use several circuits from the same battery each having different volts

Yours Truly

Thos A Edison

1

FROM

THOMAS A. EDISON,

~~Menlo Park, N.J.~~
~~New York, U.S.A.~~

TO

CHAS. BATCHELOR,

PARIS, FRANCE

My Dear Batchelor

I do not know whether you have any idea of the importance of producing a fall of pressure in your isolated installation as well as in the general distribution business. If with an isolated plant the main wires are run out from the dynamo all through the building there will be as you know a gradual drop and there will be a difference between the first lamp and the last lamp of two or six volts which would turn the lamps up near the dynamo to from twenty to twenty five candles provided a panel is made of the size at the extreme distance from the dynamo of sixteen candles a difference of a few volts is how ever taken up are made to run at a point in the mains of which would make a suitable difference in the life of the lamps.

The proper way to do is to run have a loop of more than

FROM

THOMAS A. EDISON,

New York, 188

TO

CHAS. BATCHELOR

PARIS, FRANCE

2

Dear and at most there pen and upon the wires and mains upon which the lamps are attached. This will cause a greater amount of copper but by not connecting the Dynamo to one end of the system but by running from the dynamo out to the centre if your system you can have a loss of what you please on these feeder wires say of five or ten or any per cent you may wish without affecting the loss on the mains carrying the lamps and by you can bring the copper down so that it could be not more than the amount wanted in the present mains. At and at the same time you can have the great advantage of only having a difference of two per cent between and the lamps on your circuit. In all installations with large steam dynamos your calculations should be directed to taking advantage of this as it is of great importance to have more than two or

THOMAS A. EDISON.
MENLO PARK
CHAS BATCHELOR.
PARIS FRANCE

Letter 188

in at most three orb difference between the nearest and most distant lamps and this can only be done by the feeder plan as above detailed. Johnson's installation at Holborn Viaduct should have been put down on these lines. He should have run ~~out two mains~~ the whole length of the viaduct and then run out in each direction a feeder cutting into the mains half way on each side. This they will have to do when they enlarge their installation for if they attempt to load up the circuit they will find their volts will be irregular and if the lamps at the extreme ends burn eighteen candles the lamps at the intermediate ones will not be more than seven or eight candles it does not require very much more copper for the reason that you can calculate for 5 lamps exactly as high as ten per cent on space

4. FROM THOMAS A. EDISON, [illegible] AVENUE, New York, 188

TO CHAS. BATCHELOR, PARIS, FRANCE.

Feeders thus diminishing the [illegible] carried on feeders and calculate the loss on single mains at 2%. The great drop on your feeders will not affect the drop on mains the lamps at all as you can readily see. The feeders when they will have to turn out on the viaduct may be the same size as the mains the loss on the feeders being but 2% while on the feeders it may be 8% or 10%. You see how important this matter is if you think the matter over.

You know on our French Viaduct in New York we find by calculating that the copper tubes would cost $125000 with a loss of 10% which means about ten volts fall. It would cost to be all kinds of trouble in different parts of the district if the loss were upon the mains. Hence the necessity of adopting the plan of feeders as we have

5

FROM

THOMAS A. EDISON,

~~MENLO PARK AVENUE~~

~~New York~~ 188

TO

CHAS. BATCHELOR,

PARIS, FRANCE.

the greater loss upon the feeders & the lesser loss upon the mains or in other words the drop in volts ~~that~~ the drop in candle power is upon the feeders & not upon the mains and so we maintain uniformity of candle power. The cost was increased ~~but~~ very little by so doing because we made the mains all alike, with a loss upon them of 2% and made practicable all our loss upon the feeders increasing the loss from 10% to 15% when all the lights are on so that when our District is in full play there will not be in any part of our District a difference of more than two volts between the lamps.

Yours truly,

T. A. Edison

10th May 2

My dear Colony

Referring to your memo of 9th as to Niagara Falls water power I know Walters to be a first class engineer & I would therefore have nothing whatever to do with him as his water power

I enclose you herewith letter of F. W. Hunting which I would prefer your replying to as I see no objection to letting him have a chump at any price

Your memo of 8th Borden I return you herewith & I think you will find that the expense of the Agency would be $16,800 & not $1800 as erroneously stated in your memo I do not think this amount is too much if we can get a good man we must be ready to pay high for them. The only point I object to is the Cadet to Quebec. Pass for another person. He will probably cost about $2000 per year & Borden wd be in order to get a yearly salary of one person

on the capitalization would
be a charge on us of $20,000
a year for Boston alone without
our getting any revenue from our
interest in the Boston Co or we
might get one per cent of
what we get but it would not
be well for us to take on
our books a liability such as is
proposed in the memo. as to
who should bear the charge of
$20,000 a year I think the fairest
plan would be to have Boston
ship a memorandum of which
he is at work on & then we
can charge the Isolated & the
Parent Co with their respective
proportion.

Will you please have
about six blue prints of the
two maps (light & powder)
of the Fire District sent out to
me at your convenience

Yours A Edison

Aug 10th 2

Geo. M. Upton Esq
Harrison N.J.

Dear Sir

For your information I send herewith copy from a letter received from Mr. Bruckner, of the following paragraph.

"Regarding the loss of vacuum at Menlo Park leakage we had accidentally discovered with regard vacuum tubes I have stated a thing we never had just killed all that trouble. In all my experience for two months that has never been the slightest leak. It is this I put no vacuum under the flame of vacuum cock into some oil in a cup, a piece of shoulder and then I dip the fish and round it to fill up the gap. The oil is [illegible] light I boil the white shellac in alcohol and then this is hard & scratch in it makes a most perfect vacuum joint."

Soldering Minutes

I have cast all my soldering irons of type metal and they work very well when the plates come out of metal they have the name on so EDISON on one side & Bruce 5680 on other dip in plates.

Yours Truly

Chas Francis

Aug 10 – 2

Edison Phonograph Special Incandescent Lamp Co.
7 Spruce Street
New York City

Gentlemen

As requested I beg to frame you herewith the prices of dynamos we are now building.

Size	Single	Double	Triple	Quadruple
6	200	350	450	2,25
16	250	1350	405	1,25
2	50	900	275	1,35
1	40	550	150	40
½	5	185	40	25

The above prices are all f.o.b. New York, ~~I can give you the price of 2 dynamos~~ in the course of a few days

I am glad to receive your order through Mr Fox at Paris Office rather than direct to the Machine Works

Yours very truly

Thos A Edison

Aug 11th 2

Aug 10 2

Telegram

Edison Menlo Park N.J.
100 words Send
P.O.

Send by Rail Express Way
by messenger for signature
L Sherrill

R. Wallbridge
174 William St
New York City

Have wrote about $2000 Amount
L Sherrill

Moore

Prof Clodius can do nothing until you tell him where the cones are to be set at Roselle please attend to it at once or we shall be greatly delayed as Mr C is very slow. Benjamin is making a Standard Electrolyzer with 3 Reg Gas Cock Cost about $20 with shelf, base & socket rail. It is especially designed by Cheapness with the maximum good appearance for the money

Edison

Mr Joe Patton, Your memo of 9th
Aug came to hand this a.m.
Ten candle lamps. We are not yet
quite up to make ten candle lamps
at a low price. Those for small
towns with high resistance are
hard to make but eight candle lamps
may be run at ten candles and
give over two hours life. I do not
think that the high resistance
ten candle lamps should be
selected business for some time
to come. They cost at present
as much namely eighty cents to the
reason being that the filament is
so fine that we lose 8% in many
cases. Many discussions. I thought
I must have been misinformed.
I have read the proposed
agreement & it seems to me all
right as does also that for
Company Accounts are now being
worked on.
Isolated business in the town I
think Mr Joe should make an
arrangement with the Card

[illegible] temporary [illegible]
[illegible] from the Pacific to [illegible]
[illegible] do this business with
[illegible] money I think the Pacific
[illegible] could afford to [illegible]
[illegible] the percentage of [illegible]
[illegible] than in Chagres Co.
[illegible] Independence I think I know
[illegible] an attorney in San Francisco
[illegible] have him look out for our
[illegible] interests. If this is done you
[illegible] should supply him with [illegible]
[illegible] all testimony
[illegible] Union. I never [illegible] man
[illegible] the Company.
[illegible] I certainly think you [illegible]
[illegible] the bulletin [illegible] between you
think it will do good.
[illegible] more in [illegible] accumulate I
[illegible] attention to the acting [illegible]
[illegible] the Pacific.
[illegible] I most [illegible]
[illegible] I [illegible] should have this
business to deal with.
[illegible] I know nothing [illegible]
what [illegible] expect.
[illegible]

Dynamos at central stations and day he may call and you might arrange with Clarke to have one or two started up for the benefit of Anderson & his friends. Lawyer Mann again. If James B. Smith could be brought forward to prove that Lawyer made the inventions not Mann (see Col Rogers letter Aug 5) it would be a very good thing for us.

Royalties. A curious point came up the other day. I understand that if any person who owns a patent permits others to manufacture as he himself sells the patented article and sets a royalty on such patented article at a certain amount that any one can go ahead and manufacture and they cannot be stopped provided the Springers pay the royalty which the owner of the patent set on his machine originally. If this is so it would be very dangerous to set a royalty on any of our machines. I think that Betts or some one else should give us an opinion on this. I was told that the Remington & Sons

people have already licensed a firm to make their engines on a certain per cent royalty and I was told that I could go ahead & manufacture their engine & if they attacked me in the court I am told they could only obtain the 7% royalty which they originally set down as the value of their invention & that I could go ahead & manufacture as long as I pleased

Thos A Edison

Clark

Please have Brown calculate a shunt for the Roselle Water Lamps one 250 ohm each 3 in series for 750 ohm total. Have Charles set up a small dynamo & test it

#3 One 6 pitch ab

Dear Sir,
What do you suppose for a Minimum shunt on 800 volts would best be lamps cost 3 lamps = 3 ohm with a compound in a series that will do the job

Edison

William King the note.
E.C.

Answered by
Secy
E. E.

New York Aug. 2

Dear Sir

I have received your letter to Johnson on the subject of machinery & also his reply thereto. I have also looked carefully into your estimate for a 80 light Kauffman & several discrepancies. For instance you put a 7 dynamo at £110 which I am unable after making the most liberal allowances for freight & insurance to bring the cost to you above £80 for a 7 machine at $560 for Kauffman & this is the case of every estimate of cost to you. Then again I fail to see why you should charge £15.16.8 for your six light Kauffman which Mann charges £13.0.0 which must include quite a profit to him. I presume you will find Bergmann & Co charge as much. If so pay your Engineers for what Mann that Mann does. I am sure Johnson wants your one in the exposition. Why you have one I think light Kauffman £12.8 Mann does not put in any of the

why should you in your
main estimate be many thousand
pounds & Electricity very necessary
& are made for in such things
go a long way towards making
your installations complete but
yet where there must be close
figuring to counteract the most
adverse forces lying I think we can
afford to dispense with these things
& simply suggest their use and
estimate for them as extra. Pure,
I think we can make you a
much cheaper socket without them.
Johnson thinks he can fit one up
that will answer the purpose
which Bergmann & Co can sell at
so much.

I enclose you herewith my
rough estimate of the cost of
an eight light installation. Only
conductors are very different
to yours. We compare with Gem
schemes with Burton machine and
my estimate of the cost is £20.9
also what Gem will supply the

Kent for. But if Swan uses a Siemens machine my estimate shows a balance of £52.14.3 in our favour which I think, that I can supply economical machines to compete with Siemens uneconomical machines with advantage. I have estimated for 40 eight candle light & 40 sixteen candle light. These are worked on a 55 volt circuit and a machine has just the capacity required to carry them if you then the 8 candle lamps at two candles & the 16 candle lamps at twenty candles this will give you 1200 candles for eighty lights or an average of 15 candles which is almost double the actual candle power of the 20 Swan 20 candle lamps.

Considering the engine already Mr Johnson has erected with this only I do not think it necessary for me to go further into it

Yours truly,
Thos A Edison.

Cost of eighty lights Installation
80 eight candle B lamps
80 ~~eighty~~ " " "

1 B Dynamo	£ 116
80 Lamps	8.12.10
80 Sockets without Cock (20 each)	3 9.2
600 ft 16 twin	3 1.8
Elbows 8 "	13.4
5 Staples	2.1
25 Cutouts with plugs	2 1.8
1 Roll of Tape	2.
4 Sex Light Bracketlines	28
2 One " Brackets	15.
Packing	3.0.0
	£165.17.9

Estimate for Swan Plant with Burgin machine	168.12.0
Excess of Edison over Swan	£ 2.5.9

Estimate for Swan Plant if Siemens machine used	218.12.0
Cost of an Edison Plant	165.17.9
Excess of Swan over Edison	£ 52.14.3

Menlo Park, N.J.

Dear Sir,

Clark Barrett of Newark may display from the American people if they could drain that wire consisting of alloy of Copper tin or Copper tin & aluminum

Did your Casting people try that experiment of heating the iron filings before pouring the metal on Sleeve? Let me know how you are progressing with the Casting, Stallions etc.

You trying to get Bliss to give a longer order? —

Did you get that alloy Cast for Commutators of the "Jumbo"?

Edison

Mr. Upton 2

Upton -

Please send me a thousand or so of Old Carbons that are no good --

Will the 6 by 8 Carbons go two in a mould without filing the present square piece,

When you get some of these lamps please measure them Res as well as Volts so we can see how they will go together in "8" for use in small town Systems -

Edison

Aug 15th 2

Chas L. Clarke Esq
15 Fifth Avenue
New York City.

Dear Sir

In reply to yours of 12th inst if you think it advisable to change the station from one to the other it would better be done. The difference in the Meter Rates is as slight as you will see no objection to having them from Red out

Yours truly

Thos A Edison

Aug 15th 1901

E. B. Johnson
c/o Engineering and Electrical Times
New York City
Have written Mr Clarke authorizing you to forward Meter

M. C. Irwin

Aug 15th 2

Dear Sir

Referring to yours of 11th Mr Edison says what he wants is the best work in English on Gas Analysis other than Fresenius

Yours truly

Saml Insull

To C. C. Hopkins
23 Murray St
New York City

Aug 15th 2

C. L. Higgins Esq
601 Chestnut Street
Philadelphia Pa

Dear Sir

Referring to yours of 12th your suggestion refers to a subject which Mr Edison is hardly likely to give his attention to, even if he had the time so to do.

Yours truly

Saml Insull
Secy

18th Aug 2

Major Eaton,

Your memo of 5th August.

~~Agreement with Borden.~~ Your remark "your suggestion of one per cent on the Capital Stock of the Red River Co is a good one". I do not understand this I did make a suggestion about commission but do not see that this has anything to do with it.

Montreal. What would Johnson take with him. We cannot send anything that will hurt our patents and without we can make a good show it would be worse than useless to make any.

Queen of the Pacific Haul. Anderson has good men on the Pacific Coast. When the Boat gets there I think the Haul will receive proper attention.

Light Co of Pamilton Mass. They would probably make a beautiful Railroad of we sold our apparatus to them. We cannot afford to have a black eye given us in a one horse town like Pamilton and be powerless to fix it. It would do us enormous harm as there are thousands of such places. Let them sicken on the Arc

Light & then they will want an can-
descent and then we will be able
to have anything
Evening Executive 10th Aug. I saw the
article you refer to. Our time will
come soon.
American Magneto Co. I read their
Bulletin It is the richest thing out.

Thos A. Edison

Aug 10 [illegible]

Wm R. Cravens, Esq
[illegible]
Newark, N.J.

Re. directions of
the Board are informed
[illegible] Letter to Mr. [illegible]
[illegible] Wm. to Dr. [illegible]
[illegible]

Very truly
[illegible]

Aug 15th 82

I think you will find in it much useful information for the Bulletin

Yours truly
Thos A Edison

J. B. Eaton Esq.
65. 5th Ave
New York City

Dear Sir

I enclose you herewith letter from Mr Lungren of Popular Science Monthly. I have requested him to forward to you for the information he asks for in the latter end of his letter.

Please do for him whatever you conveniently can.

The article that he refers to which will appear in the Popular Science Monthly for September is extremely well written and by far the most practical review of the question of Gas & Electricity yet printed

FROM
THOMAS A. EDISON,
No. 65 FIFTH AVENUE
New York, Aug 15 1888

~~CHIEF ENGINEER~~
~~PARIS OFFICE~~

Dear

When asking Boag about piece work prices and he could tell me anything about them said they didn't pass through his books. Hereafter please put all contracts for work on the order book and when entries turned in they can be paid for by check, as ordinary bill.

Edison

Could get the model ready to send in today -
Bailey is here & think will get order for 3 more Jumbos and can get large order for the new "ship" of tubes ok -

05th Aug 2

Chas.

On the railway we find when starting the armature takes all the current away from the field, without we connect it up so that it takes an economy power to work field — I have had the field magnets taken out & sent to French to please calculate wire for field so we can work the service with the armature, I learn from reading that nearly all dynamos have their regulation field series bobbin — but as our field is more economical I think the regulation of field should equal the armature ⊕ ⊖ of course but this is a good guess please calculate what the wire should be in or whether it could be done with greater economy by annual so as to save —

Yours in haste

T A E

15th Aug 2

Marcus D. Leonard
Newark N.J.

Dear Sir, Replying to yours of 11th I think you know me a fearful [illegible] in getting [illegible] the lowest price. I [illegible] lowest price is $500 but not offered at 500. I will sell you a share for 600 if that will suit you

Yours truly

Thos A Edison

Edison Lamp Co
Pres. Jos. Sinclair
10 Bond Street
New York City

Dear Sir
I have received your favor with inclosed the information you ask for you had better apply to J. B. Eaton Vice President 65 5th Avenue as he has the entire [illegible] and can probably give it off hand.
Please mention this company when you write to him for the information

Yours truly

Thos A Edison

10th Aug 2

Steven D Coard
Newark
N.J.

Dear Sir Referring to yours of 7th I think you could sell a hundred [illegible] is getting [illegible] at 500. I [illegible] 100 cd. not offend at 50c. I will sell [illegible] a share for 60c if that will suit you

Yours truly

Thos A Edison

Thos A Edison

16th Aug

R. Hail Esq
Supt
Edison Co for Isolating
97 Liberty Street
New York

Dear Sir,
Will you be so good as to send out here immediately a man competent to set right the badly balled work of that incompetent man Hunt as the house when I leave. We will have to tear up the wires, set them all right & fix up our chandeliers.
We do not want a man who draws much of his time to the nursery maid as we made Jones understand.
Yours truly
Saml Insull

16th Aug

Calvin Goddard Esq
Boston
Edison Electric Light Co

Dear Sir,
Will you think
reply to the message sent
from J. Cheyne Wilson of
Altoona Pa.
Yours truly
Saml Insull

16th Aug 2

Major Eaton, Your memo of 13th August came to hand yesterday. I might talk to you about the Petersburg Contract the next time I am in the City. I have received the Office papers for which accept my thanks.

European Accounts. Drewell has finished his analysis of these accounts. He will get them copied & send them in to you. As he is very busy when here is so much occupied as he wants here for these & long ago.

Completing Indenture. I certainly wanted not understood to write name fact & therefore we must let our opponent shew. I cannot assume name the Proprietors of Jones Hotel that the room flight mined the Building of the United States Bank that the church cause revenues & that our opponent knew nothing of the Revenues.

Japan Trade. I cannot decide about this until for the present.

Aug 17th 2

To
Sir Nottingham Plantation Co
92 & 94 Liberty Street
New York City

Gentlemen

Referring to mine of 10th inst. which certainly, the work of the increased horse power of the engine is evident, relative the matter. The time on the connecting may be given as nearly according to investigation.

We are making number of estimates for work of this character some of which will give by the week or day, give you figures on it. There is no limit to the amount of horse power available. Commercially, the question for it to be seriously chosen will be more than [illegible] while.

Yours truly,

Thos. A[illegible]

Inclosed herewith. We could furnish machine necessary for the purpose & trust that you will find it satisfactory & consulting advantageous.

Thos. A[illegible]

16th Aug 2 930

Telegram

Ex-Governor Howard
Providence
R.I.

Delay in getting model engine caused loss today of sixty thousand dollars order for Italy. Unless you can make some business arrangements whereby we can make these engines I shall certainly be compelled to make other arrangements which I very much regret

Thos A Edison

Aug 17

D. Washington
176 Washington St
New York City

Please be
[illegible] work from
$4,000 to $6,000 in [illegible]

Wm Sealy
Paul Kruesi

Letterbook, LB-008

This letterbook covers the period March-September 1881. Most of the correspondence is by Edison. There is also correspondence by Samuel Insull. Most of Edison's letters are in the hand of Insull, acting as Edison's secretary. The correspondence relates primarily to electric lighting. Included are letters concerning the establishment and financing of Edison's manufacturing operations, the lighting of Menlo Park, infringements of Edison's incandescent lamp patents, specifications for steam engines, and lamp orders. Other correspondence pertains to exhibits for the Paris Electrical Exhibition of 1881. Among the recipients are George F. Barker, George E. Gouraud, and Francis Upton. The front cover is marked "1881 Letters." The book contains 497 numbered pages and an index. Approximately 30 percent of the book has been filmed.

Mch 8, 1881
Sept 19, 1881

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W
Y

6th March 1881

Mr R Murray
109 East 25th Street
New York

Dear Sir

Your bill of two hundred dollars ($200) for the work at the Iron Work is receipted.

Please call Mr Dean at one o'clock on Monday next and he will tell you what to do

Yours truly

4th March 1881

Mr R. H. Carey
[redacted]
New York

Dear Sir

We have concluded to give you the job at the Iron Works. You may go ahead and get out the stock and have it prepared for work.

We shall probably start on one floor by Tuesday but will probably not be able to start on the other floor for ten days after that

Yours truly
[illegible]

EDISON ELECTRIC LIGHT CO.
OFFICE OF THE VICE PRESIDENT
NEW YORK

7th March 1881

Mr. J. D. Potter Esq
190 Manhattan Avenue
Greenpoint Brooklyn E.D.

Dear Sir

Mr Edison has requested me to acknowledge receipt of your letter of yesterday. He has caused the Blue Grass works, John Roach & Co. place, and his immediate work on the engines satisfied. He is forward this week to be start another factory for the manufacture of his lamps and he will require a building about the size stated in your letter but will need a building on a location where another building could be added if necessary of equal size. He will keep your letter before him

Yours truly
[illegible]

Very Important

65 Fifth Avenue
New York 9th [illegible]

My Dear Gouraud

It is important that I should have as much money as possible at my disposal [illegible] the next few months we are [illegible] [illegible] [illegible] with the [illegible] [illegible] been [illegible] in order to get [illegible] [illegible] [illegible] [illegible] [illegible] have bought the [illegible] [illegible] (Roach's old place) [illegible] [illegible] shop where I can [illegible] [illegible] the various parts of the [illegible] which I shall have [illegible] [illegible] at different works in order to secure prompt delivery. The whole work I have taken on my own responsibility so as not [illegible] [redacted] [illegible] to the [illegible] [illegible] [illegible]. Under the

We have many other things connected with Right in which I am obliged to use my own funds and consequently my resources are taxed to their utmost. I believe there is no chance of [illegible] the [illegible] capital [illegible] the [illegible] at [illegible] but [illegible] for [illegible] the [illegible] [illegible] be [illegible] [illegible] chance of a [illegible] [illegible] to the Lords [illegible] I want [illegible] to sell out my proportion of the [illegible] here [illegible] as possible compatible with [illegible] [illegible] market. I have sent Rowlands instruction to [illegible] my shares to you. Please commence selling at once at not less than £6 per share but as now settled on the basis of £5 a share I shall be much disappointed if you

do not get Mr. Insull has explained to me the telephone matter and I will rely on your getting higher prices in shortest time. When I tell you that I have had no less than 1,500 letters on the lamp factory you will appreciate how lightly I must personally answer them. If I can be helpful I can with what you want promptly. I must have the management of the personal control & I shall be compelled to raise money. I shall have to put up with Board of Directors which would be fatal to my endeavours to turn out things rapidly. Do you see how matters stand? I have to let you have things quickly you must meet through my money matters.

We have moved the Engineers office to the building and the [illegible] passed from the field of [illegible] [illegible]

to that. practical operations.

Immediately you get this cable [illegible] what you think there are of getting [illegible] the following code:

Edison Telephone Co of London	Wicked
Edison Telephone Co of Hadyon	Wickedness
Edison Telephone Co	Wickedly
Edison London Reversion	Badly
Universal Telephone Co	Badness

But [illegible] I will charge a [illegible] now at $1000 a [illegible] but [illegible] have to call [illegible] to raise money it [illegible] be at an [illegible] rate per [illegible] I want to hold them as long as possible.

Have address all letters to the above address as usual & my [illegible] will be here until the concern [illegible] completely & [illegible] probably about 12 months.

Yours very truly

Thos A. Edison

8th Mar 1

F. A. Walker Esq
Hotel Windsor
Treadwell
Col.

Dear Sir

Referring to your favour of 2nd inst I do not believe in the class of instruments you refer to at all

Yours truly

Thos A Edison

8th Mar 1

Referring to E. G. Esq
Corner 14th St & 4th Ave
New York City

Gentlemen

Referring to your favour of 7th inst we shall in a short time have lots of work to give out on a contract as we do not desire to manufacture ourselves

We shall send one of our men up to see what you can do best

Yours truly

Thos A Edison

10th Mar 1

Dr Charles D. Ward
27 Walnut Street
Newark N. J.

Dear Sir

Mr Edison has requested me to send you the ~~enclosed~~ certificate for one share of stock of the Edison Electric Light Co. being in settlement of your account against them to January 1881 ~~$242~~ you having ~~hereto~~ been credited for $28.

~~Please acknowledge receipt~~
Yours truly
Chas. Mitchell

9th Mar 1

James J. Roberts Esq
1044 Broad & 22nd Street
New York

Dear Sir

I beg to enclose your herewith Certificate (No 1130) for three shares of stock of the Edison Electric Light Co. Your cheque for $4200 in payment has been handed me by Major Eaton.

Kindly acknowledge
Yours truly
Chas. A. Edison
Pres.

20th March 1

James R. Upton Esq
Edison Lamp Co
Menlo Park
New Jersey

Dear Sir

Mr Edison has requested me to send you the enclosed letter.

He says it is evident from the fact that the splints he sent are perfectly satisfactory Mr Edison thinks he a mistake should be made of splitting them that they are not satisfactory and asking that measures be

Yours truly
[illegible] Donald

10th March 1

The Compination Gear Machine Co.
Gentlemen & Knight Lane
Detroit Mich.

Gentlemen, We have had one of your machines in use for exceed years and about 2 years ago we bought another machine of your co. We have not had any trouble with either one. They were put in and they are perfect working in every respect

Yours truly

[redacted]

10th March

Prof. H. N. Paterson
Bridgeport Conn.

Dear Sir

Mr Edison has requested me to acknowledge the receipt of your favor of 6th and to give you the information asked for.

Mr Edison has had his system of Electric Lighting in practical operation at Menlo Park for some months past. The system has not up to the present been put up in any city but the lights are distributed at Menlo Park in such a manner as to demonstrate the practicability of lighting a city. All that Mr Edison is waiting for now is the permit of the Board of Aldermen to lay wires underground. He has applied to the City for permission to do so.

The Editor of the Standard seems to forget that there is great difference between commercial practicability and being scientifically perfect. Among scientific men when they have conducted an

experiment in a somewhat practical manner and have this proved the thing it is called perfect but there is a vast difference between this and what is commercially perfect. This latter often takes much longer that the former. It is a question of dollars and cents.

Once a year ago Mr. Edison had 100 lights burning three months and no less than 10000 people went to see them. That was the scientific experiment. This several months past the light has been exhibited on a large scale and is commercial practicability established.

As to Mr. Edison crying "wolf" so long I should have thought a newspaper editor would have known better than to have charged Mr. Edison with more than about 10 p.c. cent of what has been put into his mouth. The public interest in all information as to a substitute for gas has been so great that newspapers have been compelled to deal with the subject very fully and consequently they sent reporters constantly and persistently to men in Park who unable to obtain the information were obliged to rely upon their own imagination

for about 90 per cent of their so called "entrieves"

The Standard says the use of the Electric Light is due to other inventors it may be the Electric Light is not new what is new however is the perfecting of a system of Electric Lighting which will in all respects take the place of gas and no one except Mr Edison has successfully solved this problem.

The Standard insinuates that the Edison Electric Light Co is a Stock Jobbing Concern. As a matter of fact it is just the opposite. Originally there was a Co organized with a capital of $300000 to raise money to conduct experiments to develop a system of Electric Lighting perfectly analogous to gas — divided up in the same way and capable of being distributed each a large area. The capital was furnished by about a dozen men among whom were the firm of Drexel Morgan & Co. During the Greenback when the shares were quoted at $1000 not more than 25 shares passed hands. Besides the Light experiments the question of the distribution of power by the use of small Electric motors was also and it became necessary to

make money and it seems to mean that when the shares stood at ten times their nominal value there would not have been the slightest difficulty in raising several millions of dollars but this year not done the Japanese were simply unknown to Europe. Moreover from the day the City was first organized down to the present time not one hundred shares have been sold to the public outside the original holders — in fact the most conservative policy has been followed throughout.

As to the Extensions or nothing with the Western Union Telegraph Co. he said it would be matched for the Telegraphic [illegible] and consequently was obliged to go to the people who controlled the Telegraphic System of this Country in order to get a fair price for his encentive.

I would prefer your not saying the source from whence you get your information in any letter you may write to the Standard

Yours truly

Saml Sidney

Mr Hanson does not contradict the B. S. P. C. [illegible] I should say the largest the

11th March,

The Honorable James G. Blaine Esq
Secretary of State
Washington D. C.

Sir,

I have the honor to acknowledge the receipt of your esteemed favour of 10th inst and it is with much regret that I am compelled to decline so great a distinction.

Having completed the experiments on my system of Electric Lighting, I have removed into New York with the object of personally superintending its development. It is impossible that this should receive my immediate and undivided attention, and I am therefore reluctantly obliged to decline the very flattering offer you are so good as to make. I have accordingly telegraphed you to this effect.

I am Sir,
Your obedient servant

11th March 1

Mr. R. Nelson Esq
Edison Lamp Co
Menlo Park N.J.

Dear Sir

I send you herewith one Lamp. We do not do the work now as we used to do it when lamps were more than a hundred candle power with high vacuum so that the vacuum will not have broken. This should be here by Thursday next at Friday. Can you do it?

Yours truly

[illegible]

Mr. [illegible]

Dear Sir, it is to well the you are getting a number of copper plates lamps to let their hooking on the glass and then make a test of the coming after fine hours burning to see if the vacuum has been knocked down. Perhaps your plan of bringing the lamps up hot on the pumps will prevent this. But it would be well to prove the point

[illegible] 1

[illegible]
[illegible] Co.
[illegible] Park
New Jersey

Dear Sir

[illegible] I am not going to give any more exhibitions [illegible] the Fairmount Park and you may [illegible] the Hydraulic Ram and the shafting [illegible] the Hydraulic Elevator of the Real Estate [illegible] machine. It is [illegible] Elevator [illegible] back [illegible] to be [illegible] Fifth Avenue [illegible] the Engine & Rig should be here by Wednesday. Receive one order for the Hampson Engine and the old field machine can be used there also.

Letter you have given Upton for the machine and sent me two and received one for the Hampson Engine (received in all) how many will there be left not counting the [illegible] field machine.

Yours truly

[illegible]

12th March 1

Dawes & Lipton Esq
Edwd. Grant &
Robt. Dick
[illegible]

Dear Sirs

Sir William Thomson has requested for a set of lamps to make trial with. Please select

10 D. Lamps of gold candles
10 C. " "
10 B. " of [illegible] candles
10 A Lamps

See that each set is of the same electric motive power and of the best strength, best chamber and of very high vacuum so that they will not have their vacuum and economy [illegible]

This is very much last. Ship through Dawes & Co to Sir William Thomson, Professor of Glasgow, Glasgow Scotland. Pay charges the shipping by next Saturday's steamer

[illegible]

[illegible]

[illegible] 12th May [illegible]

Mr D. McCalebe Esq
425 George St
Melbourne

Referring to your letter of 10th inst as to Parties [illegible] we are [illegible] engage putting the [illegible] together and it will probably not be working for several weeks

Yours truly
Thomas A. Edison
Sec.

Thos A Edison

[illegible] 1

Mr Hampson
91 Liberty Street
New York City

Dear Sir

We have received the following from Menlo Park
"The Edison engine runs
"all day 400 revs to lamps
"Very little trouble: did not
"heat any to day"

Yours truly
Saml Insull

14th Mar 1

My Dear Sir,

I have your letter of 9th inst

I enclose you circular which we are sending to all who apply for license to use the Light. You should make a formal application to the Company giving the information asked for and I will look after it and see that it goes through all right in due course

You should not form a Company until we notify you that we are prepared to license your syndicate

Yours

T A Edison

14th Mar 1

F. C. Van Dyck Esq
Rutgers College
New Brunswick
N. J.

My Dear Sir

I beg to acknowledge receipt of your favour of 10th inst for which I am obliged.

I have never tried silver chloride but have plated them very elegantly with silver and copper. I fancy that silver is deposited on the globe by electrical carrying while copper is not. So I have therefore to use copper.

Yours truly
Thomas A. Edison

14th Mar 1

J. A. Brolochi Esq
66 Paint Street
Cleveland O.

Dear Sir

I have your letter of 11th inst and have found a copied copy of Mr. General Jarvis's letter on the subject.

I think you will be successful.

I am
Yours truly
Thos A. Edison

14th Nov 1

Mr Hampson
Liberty Street
City

Dear Sir

We expect all work
Park work today that
the Hampson engine and
10 hours to day (at) 225
hrs with to complete
not have to stop for
oil

Yours truly
Saml Lucas

16th Mar 1

Rev H. N. Ignatius
Bridgepool
Conn

My Dear Sir

I have received your
letter with enclosure
which Mr Edison has
perused with great pleasure

Should this not end
the controversy, and should
you require further
corroboration I shall
with Mr Edison's permission
be most happy to give it

I may perhaps inform
you to know that upwards
a month ago I was asking
my friend Secretary to
give me the address of Mr

Pennant in London and
that I am very well
acquainted with him and
his work.

Yours very truly
Samuel Insull

[INCOMPLETE]

17th Mar 1

Professor G. F. Barker
2909 Locust Street
Philadelphia

My Dear Professor

I went to Philadelphia to view about a contract for engines to be made at the Southwark Foundry and did not have a minute to spare as I was obliged to return the same night. I shall be over again soon and will then endeavour to call upon you

I will endeavour the men to run the wires at your house

We have tried the experiment of taking a number of lamps having 110 ohms hot and which were originally 200 ohms cold and also a number of lamps which were originally 1100 ohms cold and brought them down by Hydrocarbon to within a few ohms of the others and they do not make quite so good a curve as the

Mr. Francis R. Upton Esq
Edison Lamp Co
Menlo Park
New Jersey

Dear Sir

Please send Horace Barber with lamps by the first train after receipt of this. In regard to treated lamps which were sent the high resistance I want not treated and untreated to have the same resistance and mark on them necessary with the carbon and electro motive force. He will explain that the treated lamps

has a longer life than the untreated lamps of practically the same resistance and electro motive force.

Please mark on Crates "Hydro carbon" on the lamps that have been treated and "untreated" on the lamps that have not been treated.

Yours Truly
Thos A. Edison
T.A.E.

New York 18th Mar 1

Mr D. S. Sanford
162 Broadway
New York

Dear Sir

Referring to your letter of this date I have not given up the idea of locating either at Newark, Rahway or New Brunswick, and shall decide where as soon as I am ready purchasing land for the purpose which I deem most favorable for my factory

Yours truly

Thos A Edison

London 18th Mar 1

James Moore Esq
Old Park Farm
Shirley Derbyshire

Dear Sir

Referring to your favour of 5th I can obtain one of my phonographs of the London Stereoscopic Coy Regent Street London who own my Patents for England

Yours truly

Thos A Edison

Orange N.J.
April 18th 1880

Francis R. Upton Esq
Menlo Park
N.J.

Dear Sir,

Francis tells me that you cannot get sufficient electro motive force with the one Bachelor machine and that you require two machines in multiple arc. This is a great waste and I think if it is possible to increase your pulleys on the speed of your engine so as to increase the velocity of the dynamo up to the required electro motive force

I remain to be Respectfully yours
Thomas A. Edison

21st March 1

Henry Rushton Esq
Phila Local Sec Co
Phila

Dear Sir

I wish you to be kind enough to ascertain if the testimony now being taken regarding the Gas Commission is being printed as fast as it is taken and if it is possible for us to obtain a copy or copies so that we may have them. If so you will oblige

Yours truly

Thomas A. Edison

21st March 1

Samuel Edson Esq
Post Master
St Clair Co
Mich

Dear Sir

Mr Edson
will not be in
for a week
you herewith a cheque
for $100.00

Yours truly

Saml Edson

26th March 1

Mr Thos Fagan
Rhencle Park

Dear Sir

It has been brought to the considerable annoyance with reference to the Laboratory being overhauled please have your locks put on the doors giving keys to the following

Mr Hughes Carman
Mr Jobl the Assistant Acheson
Hammes & the watchman.

I am strongly opposed to anyone being there the place who has no business there and shall be glad if you will report to me any one who does not conduct themselves in a proper manner

Yours truly

Thos Edison

38 Hatton Gardn
London
1st Mar 1

B. P. Stockman Esq
8 Park Crescent
London W

Dear Sir

I have your favor of 12th inst with letter of introduction from Mr Rhodes

I note your remarks as to improvement of the articulation of my phonograph but as the whole of my time is now absorbed ~~with~~ by the practical development of my electric light here in New York I am unable to give my attention to any other subject. I hope however that at some future date I shall have and opportunity of taking the matter up again

You refer to your friend Mr Swan as being with his as a rival electric light inventor.

Have you ever considered for a moment whether Mr Swan has any claim whatever to the Patent which he proposes to use as his and are you aware that it is a given infringement of another inventor i.e. my own

Yours truly

Thomas A Edison

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28th Mar 1

Col Geo S. Gourand
6 Lombard Street
London E.C.

Dear Sir

I have your cable asking for document re Eastern Telephone Co of Europe to which you will see this cable have received my reply the Governors will doubtless send what you require by this mail

I have also received your cable stating that the London Reversion will be settled in about six weeks the Orient about two months as

[illegible]

that you will be able to send me my half share of the Laughton record payment almost immediately. I have not however up to this writing received this

I am hoping to send it on the Oriental Contract of the Japan & Australia cable from this week

Yours truly

[illegible]

28th mar 1

J. P. Thompson Esq
Custer City
Dakota Territory

Dear Sir

Referring to your favour of 14th inst I beg to inform you that I have closed my Assay Office and shall not open it again until our fall

Yours Truly

28th mar 1

Mr Jas J. Bradley
Edison Lamp Co
Menlo Park

Dear Sir

Referring to your letter of 24th inst we cannot afford to give $5 each for sockets

Yours truly

How would it do to buy & make a Rocket out of the [illegible] glycerine

T. A. E.

29th Mar 1

Geo. B. Prescott Esq
197 Broadway
City

Dear Sir

I have your favor of 28th inst with enclosures named

I beg to draw your attention to the fact that according to the agreement the taxes were to be borne by you & the other expenses charged are yours exclusively

I therefore return you the accounts together with your cheque for $480.24 and shall be pleased to receive from you an amended account

together with cheque to balance

Yours [illegible]

Thomas A. Egan.

P.S. what is "Wm Coman" and when is payment due (date to date) -

TAE

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29th March 1

Theo Parker Esq
45 Avenue de l'Opera
Paris

Dear Sir

I should be glad if you would go to a good patent Lawyer in Paris and get opinion on following points:-

Is the Gramme patent valid in France? in view of the machine of Paccinotti published in the 19 vol of an Italian publication called Il Nuovo Cimento to be found in one of the great libraries of Paris. It is also found partly translated in Schellen's late work on the Electric Light published in Germany. Paccinotti's machine seems to be a perfect fac simile of Gramme's as far as the principle is concerned. I will prove Armengaud's models as a good person to examine.

Regarding Lighting at the Exposition get all the smaller rooms of any picture gallery & we can comfortably light up the Palais Royal or Grand Hotel from the Exposition. It is bit far away & think it would be better to make two machines one for the Palais Royal and the other for the Exposition. Can you

get work through under the patents.

I shall probably use the Quadruplex, Duplex, Phonograph, Telephone, Instruments, Automatic, Fire Simile Telegraph, and other things.

Yours truly

[illegible]

[illegible]

Stevens Valley & [illegible]

[illegible] E. Bridgman & Co

New York City

Dear Sir

I beg to inform you that in consequence of some arrangements which have got to be made I shall be unable to give any reply to your offer for the 10,000 shares of stock of the Electric Light Co. of Europe until April 15th. 1881

Yours truly

29th March

The Western Union Telegraph Company

To

Thomas A. Edison

To time engaged on Nicholson
Duplicate Interference $600
" time of assistants Wages 120
$720

Paid

4th April

Col Geo. E. Gouraud, Theodore Puckas Esq
and L. F. Bailey Esq
6 Lombard Street
London E.C. England

Gentlemen

The certified copies of assignment of patents and of contracts belonging to the European Telephone Company of Europe Limited have all been mailed to you. The original with the general assignment of this Company will be mailed to Messrs J. S. Morgan & Co on receipt of cable from you stating whether this paper accompanied by the following resolutions will be sufficient for the definite constitution of the European Telephone Company which it is proposed to form.

Resolved "

"That the President of this Company be and he is hereby authorized and directed to execute under the corporate seal of the Company and with the attestation of the Secretary an assignment of all Patent

[illegible] and contracts belonging to this Company to the European Telephone Company formed in London, Limited now being formed in London and that said assignments together with the original of all assignments and all contracts as above duly notified the Board entitled to receive J. S. Morgan & Co of London was delivered to George H. Chamund, Chetham Strutt and J. Bailey was delivered to the said European Telephone Company Limited on the conclusion of the said negotiation of the said Company being duly authorised by J. S. Morgan & Co and on the faith of the said J. S. Morgan & Co to the credit of this Company the amount in cash or stock which shall be stipulated to be paid by the said European Telephone Company Limited to this Company and which amounts have been previously notified to the President of this Company by letter or by cable which shall have been complied by the Board of Directors of this Company whose acceptance shall have been signified by letter or by cable by the said President to Messrs Chamund, Strutt, and Bailey and to Messrs J. S. Morgan & Co

At the second time that special [illegible]

please cause dispatch [illegible] to
the final conditions on which the
Edison Telephone Company will grant
as far as the interests of the [illegible]
of the [illegible] are concerned.

Yours, Gentlemen
Faithfully yours
Thos. A. Edison
President
Edison Telephone Company
[illegible]

[illegible] 1

The Unionia Chem Co
[illegible] Cliff Street
City

Dear Sir

Mr Edison will be glad to see you [illegible] Davis [illegible] moving about to [illegible] off

Yours truly
Saml Insull
Sec

5th [illegible]

[illegible]
Menlo Park
[illegible]

Dear Sir

I received [illegible] not a [illegible] Defendant and also [illegible] that [illegible] considered in the [illegible] if we get them out and sell Coga. To have them packed well & shaken [illegible] a heavy box and shipped to S. Bergmann 100 Crooke Street Newark City

Yours truly
Thos A. Edison

5th April 1

Geo B. Prescott Esq
19 Broadway
City

Dear Sir

Can you spare me two Universal Permutation Pianos and two Stock Pianos that I could take personally and push them to be exhibited at the Paris Exposition at Paris.

I want to exhibit the Quadruplex there & will charge it to get this.

If you can I want return at the enclosure I simply want them loaned me for the purpose of the Exhibition.

Yours very truly

Thos A Edison

7th April

Messrs Armington & Sims
Lawrence
Mass.

Gentlemen, You may proceed to build the standard steam engine to develope one hundred and twenty five horse power with one hundred and twenty pounds boiler pressure cutting off at the most economical point with a capacity to give fifty per cent more than this power cutting off later in the stroke, the engine to make three hundred and fifty revolutions per minute. Engine to be delivered at the Saxon machine works 104 Cortlandt Street New York within seven weeks from today. The engine not to exceed in cost inclusive of everything of everything. Two thousand dollars.

If this engine after full test at Cortlandt Street in connection with a Dynamo is perfectly satisfactory to me I will give you an order for twenty four engines like it if the price and time of delivery workmanship and steam economy is satisfactory and I will advance the sum of one thousand dollars as it may be wanted on the said order for

Ad. 2. twenty four engines.

In case I want any more of these engines I am to have the privilege of building as many of these engines as I desire provided orders are given to pay for them sufficient to keep your works running to their full capacity whether such works are increased in the future or not, and to accept such orders subject to the above mentioned conditions as to price steam economy &c.

Yours truly

Thos A Edison

[illegible] April 1

Henrietta C. Nichols

Etna

California Co.

Cal.

Referring to your letter of [illegible] inst. my business [illegible] on the [illegible].

A. [illegible] received.

Yours truly.

[illegible]

11th April 1

Mr. Brown Lumber Co

[illegible]

Dear Sir

[illegible] letter [illegible] I have [illegible] 1 [illegible] 11th [illegible] have [illegible] [illegible] the [illegible] [illegible] the same way and see if the [illegible] all right.

[illegible] and charge [illegible] to [illegible]

Yours truly

[illegible] Thomson's [illegible]

18th Apl 1

Mr Thos Kagan
Menlo Park
N.J.

Dear Sir

I notice in your letters that you have a good deal of work on the tics for the Highland Dept. So these dies break and have got to make new ones this time. Please explain this

Yours truly
Thos A. Edison

18th Apl 1

The Edison Lamp Co
Menlo Park
New Jersey

Gentn

Please send half dozen A. Lamps off the same electric motor lower to Professor Barker 2909 Locust St Philadelphia he that they are perfect well. He wants to show them before the Academy of Science at Washington

Yours truly
Thos A. Edison

Carp. chas to E.L.C.

[illegible]

My Dear [illegible]

[illegible]

[illegible] you know that [illegible] has [illegible] appointed a commission [illegible] my friend [illegible] of the [illegible] [illegible] of their [illegible] to secession commissioners [illegible] offered to [illegible] one of commissioners [illegible] charge [illegible] to [illegible].

If by any possible means I can [illegible]

most happy to do so [illegible] myself will [illegible] to [illegible] "Gordian knot". The [illegible] is a [illegible] [illegible] for [illegible]

Yours very truly

Thos A Edison

[illegible] Rocha
Agog Grand [illegible]
[illegible]

Dockyard,

The Indian Law & Co.

London Bank

Y. S.

Sir,

I have your letter of yesterday's date.

The Lamps returned are to be charged to Messrs. Morgan & Co. & not to Sir Wm. Thompson through Messrs Morgan & Co. They should be invoiced at £10 each. State on the bill that these lamps are returned & made credit for £10 & equitable that as that the price is to pay for allowed work.

Then will you send the rest of the lamps to Sir William Thompson.

Yours truly,

Thos. A. Jones

10th April

Francis R. Upton Esq
Menlo Park
N. J.

Dear Sir

I think from the enclosed letter from Mourelyan Neuman & Co that they have got some what mixed as to what we require

I think that a letter of explanation should be sent to them so that here after there can be no mistake as to the kind quality and quantity of bamboo strips which we want. The impression that I gather from the letter is that they understood that you did not want any more Matabi whereas I thought this was the next.

Yours truly
Thos A Edison

16th April 1

Francis R. Upton Esq
Menlo Park
N.J.

Dear Sir,
Have you got any plumbago cartridges in the lamps ready I would like to have some experiments made as to how high they will go & as to their life

If you have two of these lamps to spare please send them on to me Yours truly
Thos A Edison

16th April 1

L. W. Sewell Esq
Morse Reds
Cuba

Dear Sir

Mr Edison has requested me to send you enclosed cutting from the London Daily News of March 31st 1879 and to draw your attention to the concluding matter to the Edison Telephone in the first advertisement.

Yours truly
Lauri Sewell

17th April

Mr Edison
Menlo Park
Enclosing cutting from
Daily News
Lauri Sewell

April 15 1

Dear Sir

Your exquisite Canto reached me promptly. You say you have given your Canto immortality by using my Phonograph to record it; but your modesty forbids you from saying that I will live in the Canto like a fly in amber

Yours

Thomas A Edison

To Professore
Pietro Giovine
(Italia-Piemonte)
Città di Bra.

19th April 1

N. W. Wheelock Esq
President
Southwark Foundry & Machine Co
Philadelphia

Dear Sir

I received your letter of March 31st in which you state the conditions upon which we can obtain orders from your Company came duly to hand but I delayed replying to it until I could ascertain what could be done in regard to the same. I now beg leave to state that the Edison Electric Light Company looks to me for the steam engines and I have moreover taken large contracts to provide the Company with the same upon a clear check & explained to you, and as it is my opinion entirely hopeless to endeavour to obtain machinery upon any other system it can not avail anybody to have a condition for free

engines upon the conditions which you set forth in your letter.

You will understand that if you can order for us 250 locomotive engines I of course will take that I very much wish to have it in my power to do so as I want to continue it work [illegible] the demand and exhibit it at the coming International Exhibition at Paris.

Please state if it is possible to get it in within this time or not how soon will you be able to do so.

Yours truly

Thomas [illegible]

20th April 1

Mr Edison
Menlo Park
N. J.

Dear Sir

You had better go into the Camp Factory and learn the Camp business in all its details

Yours truly
Thos A Edison

20th April 1

Mr John A. Lund
Jeweller
Wheeling W. Va

Dear Sir

I have your favor of 16th inst enclosing portrait of your young fine boy.

I am much gratified by such a mark of respect shown me by a complete stranger and I trust that your many good wishes for your young future welfare may be fully realized

Yours truly
Thos A Edison

26th April 1

Colonel Gouraud
6 Lombard Street
London E.C.

Dear Col

We have your various letters as to Edison & European. Long ago you get this you will have received the document as to European. It was a mans special business to attend to it and it received attention just as quickly as possible & we are so much

to get [illegible] that it took some time.

In the interim we are attending to the China contract & will write you on this as soon as the matter [illegible] as early as it is possible.

You must remember that Mr Edison is not always able to make others people move as quickly as he does himself.

Yours truly
[illegible]

I send you [illegible]

21st April 1

Rudisill Mine
Charlotte
N. C.

We have a new machine and want to test it on massive figures slightly additional to see if we can get the gold out economically. Can you send us a couple of bags to experiment with.

Yours truly
Thos A Edison

20th April,

My Dear Mr Green

I want, to make an exhibition at the Exposition Electrique at Paris. Would you lend me with the Clean of one set of Quadruplex Apparatus, one Minutia Steel Printer, one Printer Line printer

I will return them in good condition and will be responsible for the same.

If you can obtain one Electric gong the beam (with Sounder) and order for the same

Yours very truly

Thos A. Edison

21st April 1

J. P. Ramsey Esq
Card E. & Cashier Co
54 William St
City

Dear Sir

Replying to your letter of yesterday's date I can see you here at any time you may be able to call

Yours truly
Thos. A. Edison

21st April 1

Francis Upton Esq
Menlo Park

My Dear Sir

Replying to your letter of the 20th inst I think you suggestion as to incandescent lamps a very good idea I think we shall be able to utilize them

Yours truly
Thos A Edison

29th April 1

Professor Alexander G. Bell
Washington.
D.C.

Dear Sir,

I enclose copy of letter from Messrs Renshaw & Rowland of London Solicitors to the Oriental Telephone Coy which will explain themselves.

I am unable to get at Mr Edison this morning to sign the Agreement to do in order to save time. Send them back to England as early as possible.

Please do what is necessary on the matter & return them to us as early as possible and as I work to get Mr Edison signature & send them back to England as early as possible.

Also enclose you a print of the various Oriental Telephone Co Agreements for your own use.

Yours truly
Saml Sweet

24th April

[illegible] Gaussaud
to Lambert [illegible]

[illegible]

[illegible] day

I have received
your various letters
with respect to
my shares collected
in the London Rev co
I am [illegible] surprised
that you should have
sold them at 8/- the
current price [illegible]
during the panic
especially as the [illegible]
to my [illegible]

and the price of the
shares the day after
you sold is 28/- and
the [illegible] day is 28/-
[illegible]
[illegible] at a
[illegible] Truly

24th Sept 1

Col. Geo. B. Gwinnett
London

Dear Sir

I cabled you on the 17th inst as follows:-

"Cable credit shows that we could do more fruit experiments not exceeding £150 & cabled you again on 22nd

"Answer cable fruit experiments immediately and at once you repeat "Drexel pay"

I have received from Drexel Morgan & Co. £150 which sum I credit you on the account

I propose to make the experiment this season of conducting direct the fruit to England or as the case may be to the probable market, giving into the hands of a large house in London.

The basis on which I will do the thing which you ask is that you shall supply us with the money to do the experiments, pay fruit charges, in fact all the expense incidental to getting the fruit as you have undertaken to obtain whatever capital may be necessary

In consideration of which I will give you half the profits & value from the undertaking.

Please obtain immediately full information as to what price it would be desirable to send to England after have what quantity the market would take off and what price you could probably obtain the same information as to Canadian game.

I think that for this year we shall confine our efforts to game & feathers but we probably send incidentally some other things.

[redacted]

28th April 1

Mr Co Coleman
Menlo Park
N.J.

Dear Sir,
Please pay Mr [illegible]
[illegible] Rs a month
until otherwise advised
& debit my a/c with
same. Yours truly
Thos A. Edison

26th Apl 1

W. R. Mason Esq
Dupler Copper Works
38 Cortlandt St
City

Dear Sir

Referring to your favour of yesterday date we have a man still out making enquiries as to Dupler Boilers. So far they are not satisfactory. We had to put a Babcock Boiler in because we wanted it immediately

as the Babcocks, we have not Babcocks dropped the question as fast as you Boilers is considered

Thomas A. Edison

Menlo Park N.J.
April 25th 1881

Dear Sir

The enclosed
Press and copper works
to be tested for insulation
has a poor material
for insulation a good
piece when put in water
one end placed has a
resistance of only
4000 ohms which is
very low & poor insulation

Yours truly
F. Dehl.

T. A. Edison Esq
65 & 67th Ave
N. Y.

---

23 Apl 1

The enclosed Press & Copper
Chief Steel
Cutter

Dear Sir

Have you a
the other side copy of
report as to the tests on
the wire you sent me

Yours truly

Thomas A. Edison.

F. J.

29th April 1

Samuel W. Bethell Esq
14 Hanover street
City.

Dear Sir

I return to you herewith your Promissory Note for $[illegible] which I have declined not to pay. Take it to Thompson & Patten for Victoria this day 19th 1837

Yours truly

29th April

[illegible] Philadelphia

[illegible]

[illegible] Yours truly

225

[illegible]

John [illegible] Esq
The Record
[illegible] Street

Dear Sir, I had yesterday two letters of today & now beg to enclose you cheque for £2.7.7.6 in settlement of the two accounts you enclose.

I am sorry that I was unable to send a cheque earlier but the Edison has only just come in. Yours truly

Samuel [illegible]

2nd May 1

Major Frank McLaughlin
Oroville Cal.

Accept my congratulations Bachelors
Degree Eighteen Twelfth May Notation
First first July Thomas A Edison

12 pd

4th Nov 1

Mr. Q. 2 Kelb
C/o Union Geo. R. Wallace
Nov

Dear Sir

The instrument you refer to is the Anerjikhon the experiment in which I was compelled to abandon in order to take up the electric light. It is therefore not at present in a marketable condition

Yours truly

Thos A Edison

5th Dec

Thomas A Edison

4th Aby 1

Mr. L. 2 Bell
c/o Union Pac. R.R.
Wallace

Dear Sir

The instrument you refer to is the Articulating Speaking in which I was compelled to abandon in order to take up the Electric Light. It is therefore not at present in a merchantable condition

Yours Truly

Thos A Edison

5th Aby

Mr. A. Hill
Menlo Park
N.J.

Dear Sir

If you think you can take the bamboo and bring them down to 25 ohms easily or say within one ohm that. Can do you think you could get me best coils necessary early time

Yours Truly

Thomas A Edison

5th May 1

Francis R. Upton Esq
Menlo Park
N J

Dear Sir

Can Dr said anything out the carbons at a definite resistance so that changes can be made them 3 8 ohms or whether and then or so of that point and can be left before hand what they are going to be. I think myself that the paper is no good for this purpose. I think you should make them 8 eighth thinner to raise the resistance and increase the economy to ten times per horse power of the current.

The Jablochkoff Lamps have been burning now 284 hours and not one has burnt out. The lamps held have been burning 150 hours and not one broken and the globes are but slightly broken.

I understand that Mr Rich has 10 arc lights standard and I would suggest that Mr Nichols should take two or three machines with plenty of use to the Laboratory and standard and then

4th Alley

The Edison Lamp Co
Menlo Park
N.J.

Dear Sir

Please send half a dozen 8 lamp
Prof. S. Carhart
North Western University
Evanston
Ill

& charge same to
Edison Electric Light
Co sending bill to
Mr Francis Chilton
T. A. Edison

[illegible]

4th May

The Edison Lamp Co
Menlo Park
N.J.

Dear Sir

Please send half a dozen 8c lamps to Prof. J. Corbett North Western University Evanston Ill

& charge same to Edison Electric Light Co sending bill to me Yours truly

T A Edison

[illegible] May 1

E. C. Cowan Esq
Assayer Phoenix Works
19 Cliff Street
City

Dear Sir

[illegible] order to report as to further test on your coil

Yours truly
Thos. [illegible]

[illegible] Wakefield N.H.
May 6th 1885

Dear Sir

I broke several pieces of the coil and by the Assayer Clay after I had such pieces that except one all perfect & had insulation. One piece was not more than four or five feet long & none gave a higher insulation than 5000 ohms. This defect might be due to the fact that it was insulated by hand as the opening is very irregular & as it chafes very easily is another defect

Yours truly
Francis [illegible]

myself that it is right.

Yours truly

Thos A. Edison

4th May 1

E. Lewis Leave Esq
81 Cedar Street
New York

Dear Sir

In reply to your favour of 3rd inst I do not know anything whatever about the matter. It looked like one would question in hand.

If I could anything I would say it but I do not see exactly that I should wish to much till I do so that I may satisfy

P.S. Norman & Dixie that I claimed in all the [illegible]

Yours truly

6th May

Mr Francis Jekl
Merton Park

Dear Sir

Mr Corson writes you to be very careful in making sure that on the gates which Mr Rust is to fix are to merely the other evening

Yours truly

[illegible]

6th May

Dear Sir,

I enclosed you the letter you ask for addressed to D. Coppell

It is difficult to say how soon we shall be able to light up at Hyde Park. It depends on how soon I can build and my machinery which I am getting forward as quickly as possible

Yours

8th May 1

Robt Hamond
Mente Park
near Derry

Dear Sir

If you have the
[illegible] Gang which
I gave you some
time back, to make a
[illegible] on Plean and
if in by the next
mail [illegible] here

Yours truly
[illegible]

8th May 1

Hamilt Cuppell Esq
Port Dunon
Mich

Dear Sir

Please pay the
balance left in your
hands (£10) to my
brother Dr. J. Edison

Yours truly

[illegible] 18th May

Frederick Adams Esq.
[illegible] Street
Nova Scotia.

Dear Sir [illegible]

[illegible] please find my cheque for $[illegible] to the order of the [illegible] Manufacturing Company [illegible] also my [illegible] Stock [illegible] notes [illegible] as follows [illegible] for $600 payable in [illegible] months, 2nd one for $600 payable in twelve months, and the third for $600 payable in eighteen months thereafter with all accrued interest.

A bond for $1800 is also to be executed by me to secure the payment of $600 the same being the remainder of the purchase money of the property the entire purchase money being $2200.

I have executed a agreement in duplicate for the sale of the property

[illegible]

[illegible]

and you have which I need care
are what as you prepare it and
send it to me for that purpose

Also a draft of a Conveyance for the Company
one copy of the agreement for sale
(marked letter B) and send to me the
other copy of the agreement for
sale (letter A)

I am well aware that the description
of the property in the deed of mortgage
does not read exactly the same
as the description contained in the
agreement for sale. I am aware that
the property described in the two
deeds is identically the same. Please
make them exactly as to this

As soon as you sent the
draft to Smith Hall dispatch please
send the agreement for the sale
by the Mortgagee, which you also
have taken in my name, namely the one
marked letter A., so that it may be
on record that I have a claim
against the property.

Will you please see that all the
papers are properly executed ~~and that~~

If any thing is properly due and in-
dee there is not on good account
for various

Yours truly

Thos A Brion.

Thomas Logan. Menlo Park. N.J.

Have dynamo and engine ready to test lights Sunday.

T. A. Edison.

18th May 1

Mrs Adams,
104 Bloomfield Avenue
Newark
New Jersey

Dear Madam
Enclosed please find cheque for $25.00 receipt of which please acknowledge

Yours truly
Samuel Insull

12th May 1

Cornelius Donoghy Esq
John Street Distillery
Thomas St.
Dublin

Dear Sir
Referring to your favour of 26th April I think that your idea looks very much like perpetual motion and at present I do not see my way clear to test an idea

Yours truly
Thos Edison

23rd May 1

Dr Naid
Menlo Park
New Jersey

Dear Sir,
Referring to
your favour of 21st inst
I do not want more
25 ohms each and
25 ohms not giving
16 candles
Yours truly
Thos A Edison

12th May 1

P. Gillaroll Esq
Inter-States Industrial
Exhibition
Chicago

Dear Sir,
Referring to your
favour of 7th I do not
think Mr Porter-Allen
Cay will be able to
furnish an exhibit in
time for you
Yours truly
Thos A Edison

18th May 1

Mr Edwd G. Acheson
Menlo Park
New Jersey

Dear Sir,

Please prepare a card of some fibers similar to the ones prepared by Hammond & which he sent here. And card should show all the different fibers in their natural state and as they appear after shaving. Another card should show all the different kinds of bamboo cut in lengths between the joints and not split. Another card should show a single splinter of bamboo, then the first splitting and the first shaving, the second shaving and then shaving then some of them bent round then the different sizes of carbon carbonized. In this same card I desire to show some of the bamboos wound in the form of a spiral not carbonized and also carbonized

another case should show the glass as it comes from the glass house and then with the bit on it for exhausting and then with the bit on and then cut off ready for sealing, then the broke tapers at each end fitting the inside part, then the little flange down on it. Another one with a open mouth then with it screwed together with the wire in it, then the inside part sold in the glass in fact I want to show the various processes of manufacture.

These various parts should be securely packed by people used with glass cases in deep cases. You can ship at my expense what necessary time so as you may desire in New York. I think duplicate of each should be made in case of breakage - in fact I think you had better make three - and for this affair and to go to Paris

Yours truly

T A Edison

These should be done at my expense
New York

G. P. Fabbri 14th May 1898
2 & 4 Lombard Street
City

Sky Dear Mr Fabbri

I wrote to you using general circular in no way of hand yet no could get us a copy of the Nuovo Cemento Complete I enclose it would cost us several hundred dollars. If he cannot get us to complete copy we should very much like to get the 19 of June 19th 1898 containing a description of the wonders of the

Pacinotti Electric motor as to the Sam[illegible] American machines I have them quite simple but do not believe that the Boilers were big enough so I sent them back. I have not as yet received receipts and expect to delay shortly

Yours truly

Thomas A Edison

17th May 1

W. A. Graves Esq
Messrs Spencer Trowbridge
Albany

My Dear Sir

Your favour of 16th to Hughes (in which he absented I opened it) is to hand.

The only reason for there being any of the Illuminating Coy Stock in the market is that some people content with a slight premium and unloading and I think the advice is as much to sellers as buyers as I understand there is quite an active demand for the Stock at about 20 premium

If you would write me in the morning how much you want & what you will give for it I will endeavour to do the best I can for you

Yours truly
Samuel Sidwell

19th May 1

J. W. Moreland Esq
New York Electrical Exp
195 Broadway

Dear Sir

Referring to your favour of 5th inst enclosing please find Mr Edison's cheque for $4 in discharge of enclosed a/c for fees which please return receipted

Yours truly
Samuel Insull
Secy

What steps should I take to become a member of your Society

19th May 1

Samuel W. Sewell Esq
140 Nassau Street
New York

Dear Sir

Referring to your favour of 5th inst please pay the fees on the various Phonograph Patents mentioned therein & charge same to the account of Theodore Puskas. If he does not reimburse you I will

Yours truly
Thos A. Edison

19th May 1

Dr Mamroas
Publisher
"Deutsches Zeitung"
Vienna Austria

Dear Sir,

I have much pleasure in acknowledging receipt of your favour of 21st April.

I shall make an exhibition and test at the coming Paris Exposition of Electricity, and that Edison Electric Light Coy of Europe who own the Patents for the European Continent will have an office in Paris about August / September and I shall then be happy to receive propositions from the different European Countries.

I most heartily thank you for the compliments you pay me by sending my Article from the North American Review on "The Success of the Electric Light" in your Supplement Volume. The test exhibits which you represent to Paris will doubtless be in the Autumn and I venture to hope again gain for me the powerful assistance of the "Deutsche Zeitung" I remain truly

Thomas A. Edison

29th May 1

Professor N.S. Cabart
Northwestern University
Evanston Ill.

Dear Sir

I have your favour of 16th inst and am glad that you received the lamps in good order.

I read your article in the Evening Journal with great pleasure, the only error being as to my connection with the Edison Electric Light Coy. Instead of using me & my light for speculative purposes the course they have pursued has been most conservative. The original stockholders still have their stock as out of 4800 (48000) shares only about 80 have changed hands since the Company started. I am the largest stockholder & my fellow stockholders are for the most part Drexel Morgan & Co & their associates. This has caused me considerable annoyance & at times placed me in a false position was the indiscreet publications by newspapers.

Reporters who in nine times out of ten gave accounts of interviews which never took place & ascribed to me views which I would be the last to give expression to

Again thanking you for your article

I am, Dear Sir

Yours very truly

[illegible]

19th May 1

Samuel W. Sewell Esq
Washington D.C.

Dear Sir

Mr. Edison has requested me to send you enclosed papers the device referred to is in Short Behind market X.

Yours truly

Samuel Insull
Sec

28th May 1

Professor Barker
3909 Locust Street
Philadelphia

My Dear Barker

I will find out when that was published about the check Battery & let you know as soon as possible. I would be glad to see your friend Stanley when he calls.

What machine do you propose to use for lighting your house if you have one please get the electro motive force of the with the nearly saturated constant field with the machine open also give me the internal resistance & the armature and the resistance of the field. I may have to make your lamps & suit your machine.

We make 18 candle lamps for 100 & 110 volts also eight candle lamps

gas to 100 with also with candles, lamps from 50 to 100 with also 16 candle lamps with from 50 to 55 with

We have not given any of the manuscripts of the book that appear to be the principles yet but we will give you proof sheets as soon as we get them. I would thank you for a copy of your Smithsonian notice when for the Smithsonian Report when published

If there is any other Scientific that you want to see lamps I will do so with pleasure. I am very delighted to hear of Professor Short's success at Denver.

I broke a Dynamo last week of a new form but the same burgess as the one you saw at Menlo Park and it gave remarkable results. Got 90 with with an intensity resistance of 7000 ohms. This is just 20 times better than has ever been done before

by Siemens or anyone else and the heat action has been brought down to a point so low that it can almost be left out of any calculations. Hence the efficiency of this machine is up somewhere near the conductivity of the copper. The other advantage is that the whole apparatus is insulated with mica; no cotton wire is used. By a new phenomenon which I have lately discovered I am able to prolong the life of the lamps and also change their economy from 3600 feet pound for sixteen candles to 3000 feet pound for 16 candles. The Lord only knows when the economy is going to stop! Telegraph me when you will be here.

Yours very truly

Thos A Edison

27th Mar 1
Messrs Drexel Morgan & Co
Wall Street City

Dear Sirs

Referring to the conversation you had with Mr Sewell this morning I beg to state that we received the order for the Electric Light Plant for England (to cost $8000) was given and we have endeavored the enlarge our engines and Dynamo so that instead of giving between 700 to 800 Lights as given by the one at Menlo Park we will probably give about 1200 Lights and hence the cost of the plant has been materially increased. In addition to this we undertook that the necessary for the machine being ready immediately is urgent. am sparing no expense to be produced it by the required time.

have men now working night and day and am obliged to pay double wages for night work. I have also ordered a much better class of Chandelier in order to make it in every respect a first class exhibition — much better than was allowed for in my estimate to Edison. Mr Edison and I do not think the outfit will cost less than $8000. However whatever

may be shall I call
me [illegible] whatever to
mr. I have [illegible]
this [illegible] with
[illegible]
not [illegible] I
have called on you [illegible]
an address [illegible]
that I a[illegible]
[illegible] do not this I
that I shall [illegible] to me
on you [illegible]
until everything is at
fixed as I have made
arrangements with the bank
money which will certainly
carry me over until
matters city is done

Yours truly

[illegible]

[illegible]

Lawrence

[illegible]

Dear Sir

Referring to your
[illegible] of 27th I
[illegible] to enclose you herewith
Mr Edwards cheque for
£1000 Please [illegible]

Yours truly

[illegible]

28th May 1

W. H. Merrick Esq
Southwark Foundry & Machine Co
Philadelphia

Dear Sir
Referring to your favour of 25 inst. I think the Electric Light at Chicago Mr Edison thinks it very doubtful whether he will be able to exhibit in his preparations for exhibiting at the Paris Electrical Congress in August occupy so much time Yours truly

Samuel Insull
Sec

28th May 1

Chas F. Porter Esq
Southwark Foundry
& Machine Co
Philadelphia

Dear Sir
Referring to your favour of 27th inst I have given instructions for the extra balancing wheels & armature shaft to be returned to you

Yours truly
Thos. A. Edison

28th May 1

Wm D. Pinchard Esq
102 North 14th St
Richmond Ind

Dear Sir

Referring to your favour of 20th inst I have idea is altogether too abstract for me to take it up Yours truly

Thos A Edison

28th May 1

Prof Geo A. Barker
3909 Locust Street
Philadelphia

My Dear Sir

Mr Edison has looked through Puccio's addition of Roads works and can find nothing about the magnetic separator.

Can you tell him exactly page where it is to be found

Yours truly

Saml Insull
Sec

[illegible] June 8

A. G. Rensland Esq.
London

Dear Mr. Rensland

I have at last got the agreement finally executed by Mr. Carpenter & therefore enclose it to you herewith. Our Lawyer thought it advisable for me to execute it for well as Thomas Edison. I felt he said anyway it would do no harm.

I hope to send the second agreement you sent me early next week.

I am getting along here in [illegible] and [illegible] nd

regard receiving any communication with the London Office. I think that continually I should make more money than if I had [illegible] with Government.

Edisons light is absolutely complete. Our men are now working night & day to produce a sufficient capacity of supplying 1500 lights to be sent to London. Mr. [illegible] tells you the particulars when he comes & shall soon [illegible] measures preparatory to lighting up a [illegible] in the neighborhood [illegible]

September. Our offices
here have been closed for two
months & yet not a
single lamp has up to
the present broken

Yours truly
Saml. Evans

2nd Lieut.

John J. Noonan Esq.
Box 979
Youngstown
O.

Dear Sir

I have your letter
of 20th ult.

The time is so
much occupied that it
is quite impossible
for one to give attention
to the matter you
wish to lay before us

Yours truly
Thos Ashton
Sec

2nd June

Prof Alex. Graham Bell
3299, Conn. Ave
Washington
D.C.

Dear Sir

I have received the enclosed from Mr Edison relative to the Musical Telephone Coy with instructions to get it executed by Mr Edison & yourself. Please lend your official witness as in the previous case & return it to me

if process by ~~[illegible]~~ fed.

I enclose you a copy of the agreement fed. & two fees.

Yours truly

[illegible]

2nd note

Professor Geo. F. Barker
2909 Locust St
Philadelphia

My Dear Barker,

I have your favour of 20th inst. I am sorry you will object to come without seeing me on Saturday. I was engaged on something which at the moment it was utterly impossible for me to leave.

I am absolutely certain that no officer of the Edison Electric Light Co. made any such statement as you heard ascribed to him. I presume you must have heard the remark at the United States Company office & if so it was probably made with the said object of seeing what you would say. Anyway the statement that any of our officers made such a remark is without foundation. If you do not desire to accept the proposition I made you of course I would not press it upon you but as I have already stated to you I do not wish you to do anything found on that is not strictly in accordance with the truth.

Regarding the negotia

separator there is a patent of a magnetic separator [illegible] to the Chicago Exposition but there is not any reference to obtaining the projector in it. All I wanted to know was that it had not been previously published as I want to show it at the Paris Exposition.

I had already sent [illegible] to Prof Gray when your letter came I did so at the request of Mr. E.W. Jones of the Western Union Tel Co

I am very glad indeed that you like the appearance of our building. I will keep in mind your desire to light your house up after you go to Europe.

I have given instructions to [illegible] to [illegible]

I do not think I shall go at Menlo Park Sunday as I think I should have to go to Long Island If I go to Menlo I will telegraph you

Have you received your coin in Mexico

Yours Sincerely

Thos A Edison

22th June /

Hamilton M. Twombly, Esq
691 Fifth avenue
City —

Dear Sir

Mr. Edison has requested me to say that it does not think it well to attempt the Exhibit at Mr. Vanderbilt's house till Tuesday next

Yours truly

Samuel Insull

[illegible] June

Samuel Insull Esq
40 Wall Street
City

Dear Sir

This will introduce to you Mr. J. P. Selon the Vice President of the Company who is coming up to look for new [illegible] in his office of all the Electric Light Patents obtained in the United States, Great Britain and the Continent.

I shall be glad if you can render him any assistance

Yours truly

Tatlin

300

[illegible]

W. L. Stone Esq.
[illegible]
Esq.

Dear Sir,

[illegible]
understanding that the
[illegible] 1,000 which we
[illegible] upon claims [illegible]
[illegible] [illegible]
[illegible] [illegible]
[illegible] you to settle, you
[illegible] from [illegible]
[illegible] which [illegible]
[illegible]

Yours [illegible]

[illegible]

To the Board

Col Geo. E. Gambrill
London

Mr. Dear Sir

I duly received your letter [illegible] with enclosed [illegible] for Gambrill [illegible] advanced Royalty & cheque for [illegible] 5th inst.

With reference to the terms [illegible] Mr. Stable & Co. & myself [illegible] the [illegible] and the terms of [illegible] agreement [illegible] upon also quite clear in these points. [illegible] to take all [illegible] in connection with [illegible] the Company and I had settled the terms above referred to it would be quite open for me to claim from you half of the amounts you paid while [illegible] his services in connection with the formation of the London Company. I am [illegible] be glad if you [illegible] receipt of this letter [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

(Very Dear Sir)

Central Telephone Company's [illegible]
[illegible] as to Defendants
[illegible] it [illegible]
[illegible] that line [illegible]
[illegible] of the [illegible]
[illegible] a [illegible]
[illegible] the [illegible]
[illegible] to the Contract as he has done nothing
[illegible] of a [illegible] proposed [illegible]
[illegible] that I took upon it as such [illegible]
[illegible] therefore signed the [illegible] at Conclusion
[illegible] it [illegible] to Defendants [illegible]
[illegible] point Defendants on the
[illegible] but if he gives trouble which
[illegible] you must [illegible]
[illegible] clause with and any expense
[illegible] to avoid [illegible]
[illegible] care [illegible]
trouble by getting the [illegible] [illegible]
[illegible] nothing but [illegible]

[illegible] whether the getting [illegible]
Bell Telephone [illegible] to use this
[illegible] to [illegible]
[illegible] and obtaining any telephone [illegible]
which the said carelessly do as the
[illegible] and the said contract myself
[illegible] the County [illegible]
[illegible] to keep the
[illegible]

Miscellaneous [illegible] may be [illegible]
[illegible] and [illegible] that [illegible] the
[illegible] Telep[illegible] [illegible]
[illegible] without [illegible]

Sworn to before me this [illegible] day of
[illegible] in which you got [illegible]
[illegible] Telephone [illegible] pouch [illegible]
[illegible] and [illegible] Ramsey a copy of the [illegible]
[illegible] before me

[illegible]

China & the same mandate if I can
get it at a total of $10000 I shall do
so — & if $ [illegible] on said [illegible]
[illegible] it.

Yours truly

Thos A Edwin

6th June

Mr Geo C Gow [illegible]
Bombay — Cheel
Bombay

Col C. G. Goulaud
London

Dear Sir

I shall be [illegible] receive from you a statement as to the payment due by the Telephone Coy of London in January 1881. You will remember that you discussed the Bill the Coy gave you & that I agreed that you should retain my share of the proceeds in order to indemnify the Telephone Coy of London against some time after you remitted me a certain sum of $10000. I shall be [illegible] the Coy & what is my position [illegible]

[illegible]

Yours [illegible]

Geo A Gunn

6th June 1

Samuel M. Swindell Esq
891 Fifth Avenue
City

Dear Sir

I drew up a slight model of the machine, which was to be sent to Mr Edison's house, on Saturday. It will probably be put right by to-morrow or next day when I will advise you as to when Mr Edison will make the proposed exhibit.

Mr Edison has ordered the men to turn power into the Dynamo.

The lamps have already arrived at the house.

Yours truly
Samuel Insull
(Sec)

18th June 1

Mr. Chipman
72 Fifth Avenue
City

Madam

Referring to the enclosed bill I think there must be some mistake in the allowance for absence.

For the days the only per. in all rooms could empty and the Governess. Then there has been only four of us at the house since 28th April & you were notified this would be so two or three days before. When we took the rooms it was upon the understanding that allowance would be made when the number boarding was red.

Kindly let me have a corrected statement & I will send you check.

Yours truly

Thos. A. Edison

07th June 1

My Dear Sir

Referring to yours of 10th I ordered the cells to be shipped to you round time I still had expected that long ere this you would have received it. Immediately upon the receipt of your letter I again gave instructions for it to be sent. Please let me know whether you have received it.

The Latimer Clarke cells were ordered from Messrs Paul & Bell time to make

are ready they will be sent to you

We are working night & day to get the exhibit ready for Paris. Already a number of packages have been shipped & others will follow in quick succession.

I do not see how it is possible to get your house lights up before your departure but we might manage it if you were to have the lamps hung by wires & so lighted in hand up temporarily. I will do anything I possibly can to further your wishes

Yours truly

Thos Glover

Thos & R. Brockie

20th June /

Prentiss R. Upton Esq
Eaton Camp Co

Dear Sir

I saw Mr C. F. Houghton (who was with Hodges) the agent of the Coming Race Company. He says that his slack months are June July & August and then his heavy business commences. He asks if we would not let him make a thousand feet & store them so that he could calling them when his busy season. He will not ask us to calling them but will ship into pay for them per order as he is however anxious to be assured by us that we will take them. I told him that I would have a communication with you on this. If you see no objection to his suggestion please write me soon as possible to C. F. Houghton

Monongahela House
Pittsburgh

saying "all right will take them"

Yours &c

329

20th June 1

Mons. Berger
Commissaire General
de l'Exposition Internationale
de l'Electricité
Paris France

Dear Sir

I shipped by the S.S. Amerique on 6th inst. the Switch for use in connection with my Electric Light exhibit. I shall send by the S.S. France which sails the 27th inst some of my exhibits, & the remainder will follow shortly after.

By noon I will

Lenkel who will have charge of putting the exhibits in position & connecting the wires for the Electric Light. I will also sail by the S.S. France.

With Chas. Batchelor who I believe will have for Paris on 6th July. He will have entire charge of my exhibits & I shall be glad if you can render him any assistance.

Yours truly

Thomas A. Edison

24th June

José D. Huckands Esq.
Compañía Chilena Teléfonos de Edison
Valparaíso

My Dear Huckands

I see you are well in the land of the living by your letter of 29th ult. We have received one or two cables from you which we cannot make out.

Please let us know how you are getting along with the Telephone business, how many subscribers have you now, etc.

Messrs. Babbitt & Chauncey of this city are sending engineers down to Cal. & West Coast with my Electric Light. I have spoken to them about you as one able to give them valuable assistance.

I was sorry to hear of your accident & hope this may reach you safe & [illegible]

[illegible]

DULY CFH

W. H. LE FEVRE, ESQ.,

PRESDT. OF THE BALLOON SOCIETY OF GREAT BRITAIN

26 DUDDE ROW. CANON ST. LONDON, E.C.

DEAR SIR,

REFERRING TO YOUR FAVOR OF THE 28TH ULT., I BEG TO STATE THAT IT IS NOT MR. EDISON'S INTENTION TO VISIT ENGLAND AT PRESENT AND IS THEREFORE UNABLE TO TAKE ADVANTAGE OF YOUR KIND INVITATION TO LECTURE BEFORE YOUR SOCIETY.

YOURS TRULY,

Thos A Edison

JULY 8TH.

COL. GEO. E. GOURAUD

6 LINCOLN'S INN FIELDS, LONDON, W.C.

MY DEAR GOURAUD:

REFERRING TO YOUR FAVOR OF THE 25TH ULT.,

HAVE NO FEELING PARTICULARLY AGAINST MR. PREECE. EXPECTED YOU'D BE ASKED TO NOTIFY BOURNE. I THINK THE WHOLE MATTER ABOUT THAT MICROPHONE COMES PROVERBIAL ABUSE FROM MY UTTER INABILITY TO CONCEIVE THAT A MAN OF ALL [illegible] COULD SEE ANY DIFFERENCE BETWEEN THE PRINCIPLE OF THE MICROPHONE AND THE PRINCIPLE OF MR. DARSON'S TELEPHONE, WHICH HE EXPLAINED [illegible] AS I THINK MR. PREECE WILL NOW ADMIT. [illegible] THEREFORE THINK THAT AT THE TIME I HAD GOOD DEBABLE JUSTIFICATION IN GOING FOR HIM. BUT I DO NOT THINK MANY MEN EQUAL AN INVENTOR AS HE MAY HAVE MADE THE SAME INVENTION AND COULD NOT SAY THAT THE DARSON TELEPHONE AND THE MICROPHONE WERE JUST THE SAME THING. [illegible] THINK THAT MAY [illegible] ATTRIBUTED OTHER [illegible] IN FACT, I'M [illegible] INTERESTED.

[illegible] 1 JULY, 1878.

Thos A Edison

N.Y. July 1

Col Geo. B. Gouraud
London

Dear Col

Enclosed please find Trust certificate as to Mr Edison's interest in Edison Phonograph. Reinhardt asked for it but Mr Edison thought it had better be sent to you for delivery at proper time.

Johnson informs me that he has been [illegible] the shares in United States Co. [illegible] distributed to the [illegible] these holders. The [illegible] United States Co. seems [illegible] unfortunately Edison should have been sold or lost. Others will be gd for money for them.

Yours truly

Samuel Insull

Sec'y

Oct 7 1883

Col Geo B. Gouraud
London

Dear Sir

I wrote a letter to you some time back asking you to get six copies of all Mr Edisons English Patents & in addition six extra copies of his English Electric Light Patents I find this letter was mislaid & consequently never sent to you

Would you kindly be good enough to have this attended to at once & have one complete set bound in one or two volumes as you may think best & also have one of the extra sets of Light patents bound in another volume by themselves & when done please send them to Mr Batchelor at Paris

The permanent copies please ship

to [illegible] Edison at
above address

Yours truly

J. Edison

02 Rob.

Abraham Heap & Robinson
Rockingville
N.C.

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Flo. C. Edson

20th July 1

Acting U. S. Com'r Gen'l
Paris Electrical Exhibition

Washington
D C

Dear Sir,

I duly received your favor of the 18th inst. & have since received the 200 additional labels of the U. S. Commission referred to.

The whole of my exhibit for the Exposition also being shipped by the French Line of Boats to Havre I shall be glad if you will arrange for the French Boat not bearing any of the U. S. labels to be passed through the Custom House as you suggest.

I enclose you two bills of lading for shipments per the Armenienne. Please transmit them to the Warden.

I am not sure whether the whole of these are without French labels but shall let you by tomorrow mail. Yours truly

Thos. A. Edison

22nd July 1

Wm. T. Edson Esq
Fort Huron
Mich

Dear Sir,

Mr Edson has requested me to send you a closed check for $500 00/100

Yours Truly
Saml Sewell
Sec.

22nd July 1

Mr Edson Kemp Co
Menlo Park
N.J.

Dear Sir,

Referring to Mr Sewell's letter of 12th inst where of Edison Henricks, please make out paid requisition & forward them to him with as little delay as possible

Yours Truly
Thos A Edison

25th July 1

David Graham Esq
Lanchedale St
Glasgow) Esq.

Dear Sir

I beg to acknowledge receipt of your favour of 23th inst.

The Electric Light for Great Britain is controlled by Frost Morgan & Co Bankers of this City. For all information with reference to the Light however you should apply to Col Geo E Gouraud of the London

[illegible] representations in that Country

Yours truly
Geo E Gouraud

375

25th July 1

~~Geo. W. Lowe Esq~~

3 Broad St

City

My Dear Sir

Referring to your letter of 20th inst I decidedly think it indispensable that Babbit & Chandler should make the experiment of the pencil plant circular in India to illustrate my invention. That is one of the principal reasons for giving the

Aug 1

J. C. Henderson Esq
20 Rawson Street
Cito

Dear Sir

I have your two letters & was much interested with their contents.

Your order for Lamps should be addressed to Edison Electric Light Co of about address but if you enclose order under cover to me I will have this put through quickly & I will see that the order sent to me in Upton is put right.

Perhaps Brook & Blackwell would be the best one for you to get as I have been unable to give attention to the Brook I told you I was preparing as I have been so much occupied with other things.

If the limitations get hot sometimes it is probably owing to the fact that there are too many lights on or perhaps too [illegible] in the dynamo room or [illegible]

Yours truly
Thos A Edison

425

10th Aug 1

[illegible] Kock Esq
Inanyan
via Ladismith
Natal
S. Africa

Dear Sir

I have your favour
of June 2nd.

Judge for yourself the
description which you
give of shows an agine
you experience in your
England & I might confess
that I have never seen
a [illegible] made photo
that could [illegible] it at all
the photographs made in
this country can take
as pleasing as any take
They are made by
Bergmann & Co 108
Boylston Street Bos
from whom you
can [illegible] to
the price of
Yours truly
[illegible] Adams

10th Aug

The Edison Lamp Co
Menlo Park
N. J.

Dear Sirs

Referring to the postal card you send in daily as to work done what Mr Edison wants is simply a records of lamps actually turned out ready for shipment.

Will you please send me a statement of the burning of the three sets of Yes' lamps to date. Please make it as full as possible so as to make it easily understood by anybody. I shall use three copies. I want to send one to Mr Edisons Representative in London & one to his Paris Representative. The other I require for reference here.

Yours truly

Sam'l Insull

Sec.

[illegible]

[illegible] Telephone Company [illegible] personal [illegible] repudiating the [illegible] [illegible] providing that it is [illegible] document from you [illegible] you will [illegible] expenses that [illegible] defending [illegible] against the [illegible] [illegible] that you will [illegible] in case that [illegible] [illegible] that you [illegible]

The commission paid me by the Oriental Company is under stood to be calculated that you should receive half the loss which I expect to pay (which I do not expect) in consequence of my rate of chew.

I do not see what right the Oriental Company has to deduct any thing from the purchase money if we supply chew with the Deficiency specified to in an inch as we could have to chew to see you address & to the Oriental Company

Yours truly

Thos A Edison

[illegible]

[illegible]

[illegible] 880

[illegible] the consideration [illegible] the Sydney Electric Transmission Company [illegible] the [illegible] and [illegible] [illegible] with [illegible] and [illegible] and [illegible] [illegible] exchanges in the Province of Victoria and all interest with them Mr. Jeffrey of Melbourne and Mr. McGregor of Sydney in the Western Exchanges of Australia, I agree to give them the exclusive right of the telephone patents and rights in Australia on condition of receiving one dollar annually per year in cash instalments. I also execute a formal [illegible] [illegible] the Principles and force of this agreement, [illegible] to be given and in favor of the Western Electric Co. and said Jeffrey and McGregor's Witness

[illegible]

[illegible]

[illegible] Aug 1

Col Geo. B. Gourraud
London

Dear Sir

According to your personal letter of yesterday I have given instructions for an account of expenditure on Fuel Departments to be prepared and I hope to send it you in the [illegible] [illegible]

Yours truly
[illegible]

P.S. I note your wishes [illegible]

[illegible] in the subject of the same letter. I am very happy that I can [illegible] explanations which correspondence between [illegible] Mr McKeever & shall be most happy to do so. I am always very pleased to receive any suggestions from you in this connection. I hope you do not [illegible] so much [illegible] as you seem to at the [illegible] of [illegible] to [illegible] [illegible] I keep the correspondence [illegible] it is a trouble see no [illegible] with the many [illegible] have to perform [illegible]

Mr Coupland
to Geo. B. Gourand
6 Lombard Street
London

Dear Sir,

Mr Edison has requested me to take up the Question of the Electric Telephone & Agency &c.

I have received yesterday the letter of the 19th & the copy of the Agreement with the Telephone Company & memorandum referred to. I enclose copy of Mr Edison's letter of the 19th & I enclose copy of the Agreement with Mr Edison which has been done in the Central Office & Mr Edison will write to you as soon as he gets it.

Mr Edison has hopes to be able to give an answer to his rights & patents for telephones & compared but this will be important what he will do will be to give an assignment of his rights to the Gunden his Agreement with Central Office & this will be in case

[illegible] 17th Aug 0

Chas Patterson Esq
Paris

Dear Sir,

[illegible] 15th George

[illegible]

and you this letter
has [illegible]
one to place the
Exhibit at the Paris
Exposition [illegible]
my own exhibits
[illegible] the French
Government have no

[illegible]
[illegible]
[illegible]
[illegible]

[illegible]
[illegible]
[illegible]
[illegible]

Col Geo B. Gunnard
6 Lombard Street
London Eng

23rd Aug 1

Dear Sir

Referring to your favour of 30th ult you will find that on referring to your favour of 11th Oct 80 you asked me to state the basis of our understanding & I replied to you on October 25th 80 as follows:

"You are aware that I can do no more than you & I will and the patent in the countries named (i.e. France Belgium New Zealand Norway & England) and I give you 1/4 receipts from subsidiaries same as other we also have agreed 1/2 that makes you receive 3/8 of mine

Now the above will be that part of the understanding & you should pay for

29th Aug 1

Samuel R. Upton Esq
Edison Lamp Co

My Dear Sir,

Referring to matter I have written to the Chief Signal Officer that you will supply him with what he requires & give him all information as to operating by battery & make small lamp with two platinum-iridium so as to give two or three candles to work on small battery. Perhaps you had better make two or three lamps for them.

In sending the lamps (which should arrive at Washington on 1st prox. at latest) state what kind of battery they will want to run them & charge about to G. E. Co. sending bill to me for approval

Yours truly
Thos A Edison

29th Aug 1

Chief Signal Officer
U.S. Army
Washington
D.C.

Dear Sir

I have your favour of 25th ult. I regret the unavoidable delays in consequence of it being addressed to Menlo Park.

I will with pleasure supply you with lamps for the purpose you name but shall have to make you special lamps. I have sent your letter on to Francis R. Upton of the Edison Lamp Co Menlo Park N.J. to whom I have given instructions as to what I want. You can write him the earliest moment at which the lamps can be received at Washington.

He will give you all information as to Battery &c.

Yours truly
Thos. A. Edison

470

29th Aug 1

E. G. Parkhill Esq

P.O. Box 1470

City

My Dear Sir

I have your's of 22nd August & note your bro. Thos. views in the matter of letters from Norway.

I am sorry that there has been such a delay with the South American machines. The reason is that the machines originally ordered were made outside of my works (they were ordered before I [illegible] the works) & when I came to test them I found them so unsatisfactory that I directed to make some new ones which will be ready [illegible]

Yours truly

[illegible] Robson

474

St Aug 1

Hon M. Barnett Esq
Newark
N. J.

My Dear Sir,

Referring to your enquiry as to whether there is any truth in the statement that it is Mr Edisons intention to sell the Land Newark Property I beg to state that the rumour is absolutely without foundation. It was only the latter

night last that Mr Edison instructed me to have the sign of the Edison Lamp Co put up in the place of that of the Edison Office & it is not at all likely that he would give any such instructions if he proposed selling the property.

Very truly Yours
Saml Insull
Pres

29th Aug 1

Dear Fabbri,

[illegible] the cable cable correspondence we had with Gouraud some time back with reference to retaining experts in case we should want them on Gouraud's sick.

I hope that you should see that the principle writers on the Electrician, Telegraphic Journal, & especially Engineering are retained. Conrad Cook of the last named paper should be retained. The fees to pass to them should be in accordance with those usually paid for such service in England. I have implicit confidence in the ability of these men but they can nevertheless be a source of a great deal of petty annoyance to us in the future. They now & certainly have been in the past so it would be just as well to enlist them on our

ode are few enough dollars of
fact it will save us a great many
dollars worth of trouble.

Mathews & Pringle are here
satisfactorily. We have taken possession
of the buildings at Pearl Street
which we also need putting the
Boilers for the Central Station
the Tube to be a large stock of
steel men on hand and we shall
commence a laying the mains on the
streets very shortly.

Last night we tested the Dynamo
that is to go to Paris. The test was
in every way satisfactory and we
shall ship the machines the Dynamos
leaving here for Nature on 7th inst.

[illegible]

THOMAS C. SIMON

Mr J. C. Hannen is
on one through Drexel
Morgan & Co, for his expen-
ses. Please remit the
drafts as heretofore.
Yours truly
James Phelps

Mr Gilfillan

Col Goddard
Legg
Washington
D. C.

Dear Sir

Mr J. C. Hannen
is at present in Central
America making gun-boats
for us on Lake Nicaragua and
I have been paying him
through his Attorney (Gen. W.
Phelps this Broadway) his
a month salary which has
been charged to the Navy
Electric Fund to account the
monthly statement from Drexel
Morgan. I should be glad if
for the future you will
send Mr Phelps a draft
to his order for the amount
on the 1st of each month.

There is now due two
months salary (July & Aug)
which kindly send forthwith

7th Sept

The United States Com. Genl
Paris. Exhibition of Electricity
Department of State
Washington D.C.

Dear Sir,

Enclosed please find Bills of Lading for goods shipped to Paris by P.M.S.S. Co. via Canada.

The shipment sent by the St. Canada form part of my most important exhibit at the Exposition being a large Steam Electric Dynamo machine capable of giving about 800 Electric Lights.

As it is highly important that this should get to Paris as quickly as possible I shall return it as a very great favour if you will give your good offices in the matter.

Some of the packages containing the shipments have the French Labels on them, they have removed the Labels of the Department of State

Yours Truly,
Thos. A. Edison

18th Sept 1

My Dear Batch

Enclosed please find copy of letter of Edison place Journals. Have written them that you will give full descriptions, cloth &c. Edison says you had better have a couple of dozen electricos of principal exhibits & give a set to each of principal Scientific newspapers English & Continental and be careful to distribute the whole of the sets at same time

Yours
Insull

18th Sept 1

A Alabaster Esq
Telegraphic Journals
10 Fabernoster Row
London Eng

Dear Sir

Referring to yours circular letter of 29th ult Mr Edison has requested Mr Chas Batchelor his assistant in charge of Paris Electrical Exposition to give you full description & electrico of his various exhibits

Yours truly
Saml Insull
Sec

14th Sept 1

Mr Noah Pauley
Rogers
Benton Co
Ark

Dear Sir

Referring to your of as to the magnetic [illegible] you refer to is a fraud. that is if it is advertised under my name as I have nothing whatever to do with it

Yours truly
Thos A Edison

14th Sept

S. J. Delgado Esq
Box 332
Red Bluff
Tehama Co
Cal

Dear Sir

Referring to your favour of 16th Aug I will send second ounce on I will ha it tested

Yours truly
Thos A Edison

18th Sept 1

Lawin D. Newton Esq
c/o James E. Vail & Co
71 & 73 Wall St
City

Dear Sir
Referring to your of 29th August Mr Edison requests me to state that the time is so much occupied that he is quite unable to give his attention to matters outside his own business
Yours truly
Saml Insull
Sec

18th Sept

Antonio Menzie Esq
Clifton
Staten Island

Dear Sir
Referring to your favored of 29th ult I shall be glad to see you here any time you may appoint
Yours truly
Thos A Edison

18th Sept 1

Chas H Walton Esq
Elizabeth
N.J.

Dear Sir, Referring to your letter of 31st ult if you apply to Mr Grimpes 41 Ann St who may be able to give you a position in our wiring Dept

Yours truly
Thomas A Edison

18th Sept

R. N. Thurston Esq
Stevens Institute
Hoboken N.J.

My Dear Professor

I beg to acknowledge yours of 31st ult which would have been attended to before but for my absence in the west

I am a very poor hand myself at preparing papers but I will try and have some of my assistants who are member prepare papers for the occasion

Yours truly
Thomas A Edison

A Note on the Sources

The pages which have been filmed are the best copies available. Every technical effort possible has been made to ensure legibility.

END

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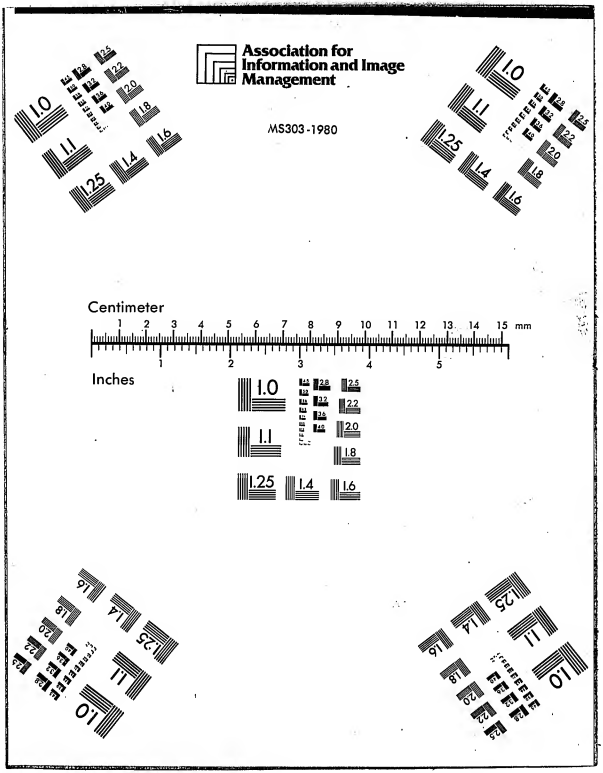
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